Appendix E Public Comments and Responses

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Subject	Comment and Response Commenter-Cor	nment#
Air Quality		
the interest of be made publications, and those identificatee where smoke impacts systems could this year, how While the Forare not kept of the second	Shore Project must include provisions for sufficient prescribed fire notification systems. In f public disclosure and concern for the residents of the south shore, the final BACMs must lic through the newspaper and website, as well as notification to Barton Hospital, local associated breathing help groups. In addition, the FS must install a telephone hotline to ed as at-risk from multiple smoke incidents as is implemented in many areas (i.e. a —phone beople can sign up on a list to be called in advance of prescribed fires that may create its in their area). For the more technically motivated, twitter, e-mail and other notification do be incorporated. We are glad to see the Forest Service working to improve these systems wever, much work remains and consistent application of such notification systems is needed. The service currently has a fairly reliable notification system on its website, details of burning up to date, no predictions for number of days of each burn is provided, and the notification sessible to those without internet access.	13-28 14-28 15-28 16-28
internet, and t expected numb	Thank you for your suggestions to improve the Lake Tahoe Basin Management Unit (LTBMU) public. The LTBMU currently utilizes the following notification systems; telephone, local website, witter. The LTBMU also updates its prescribed fire activities to include area, number of acres and per of days prescribed fire projects are expected to last. The public can contact the LTBMU and be appropriate call list.	
proposed lev performed in	ervice must analyze the smoke emissions generated by a range of pile burning, from the els (the high end') to most reduced levels (e.g. the "low end" where pile burning is only locations where other options are not feasible or possible). This must be considered in acts to air quality human health standards.	13-27 14-27 15-27 16-27
Chapter 2 that possible, for e Dorado Count	Both action alternatives will be in compliance with Federal and State air quality standards. This he Air Quality section of Chapter 3 of the EIS. The EIS explains in the Forest Vegetation section of any options for biomass utilization would be used rather than pile burning, when and where ther action alternative. Burning piles would require a smoke management plan to be approved by El y Air Quality Management District and the California Air Resources Board, specifically to protect as is disclosed in the Air Quality section in Chapter 3.	
Alternatives		
	Environmental Protection Department supports Alternative 3 as it provides the balance much needed fuel reduction treatments and protection of the natural and cultural resources.	3-1
	Thank you for your support of the project and of Alternative 3. The Forest Supervisor, as the ficial, will make the choice of the alternative for implementation, based on the analysis of all of the EIS. Both of the action alternatives are designed to reduce the risk of wildfire to lives, property, and int.	

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Subject Comment and Response	Commenter-Com	ment#
Page 2-39 thru 2-43 identifies alternatives that were considered but eliminated from furt Many of these proposed alternatives appear viable and sound and are primarily eliminated very restricted parameters that define the project. Especially relevant is the requirement demands of the Community Wildfire Protection Plans. These Plans were designed to protect urban development without considering the management of the larger landscape. Wildfire Protection Plans to a large extent are self serving and forgo the interests of a late Healthy Forest Restoration Act authorizes the treatments to achieve the recommendation Wildfire Protection Plans, but does not require that they be fully attained. Therefore, so alternatives considered and rejected, either individually or collectively, should be considered a greater range of alternatives to the project. As an example, it may be of greater forest to treat areas outside of the defense and threat zone where crown fire is most like be devastating, than to treat lands adjacent to Highway or road corridors as is proposed.	ted due to the to meet the otect homes and Community rger public. The ons in Community ne of the ered in order to er benefit to the ely to occur and	6-2
Response: The Healthy Forest Restoration Act (HFRA) authorizes federal projects for recincreasing forest health within the WUI. Based on meeting the requirements of HFRA the project boundaries were confined to the WUI and are consistent with CWPPs and the Forest Plan. The interdisciplinary team studied numerous alternatives but eliminated the ones which did not meet need or HFRA specifications. Chapter 2, the section titled "Alternatives Considered but Eliminated Study," contains the rationale for elimination of those alternatives. Treatments beyond the WUI the scope for this project. It is agreed that areas beyond the WUI defense and threat zones may be treatments to provide for a healthier and more resilient forest. There are other vegetation, fuels, restoration projects currently planned or being implemented (e.g. Big Meadow Restoration, High Restoration, Ecosystem Underburn, etc) that address other areas of concern.	et treatment project the purpose and ted from Detailed would be outside of benefit from fire, and habitat	
As a resident of the Myers area we would like to express our support of Alternative #2. I level less that this will leave the entire South Shore vulnerable to catastrophic wildfire ar accompanying impacts to lives, properties and the environment.		7-1
Response: Thank you for your support for this project. Both of the action alternatives are the risk of wildfire to lives, property, and the environment. The Forest Supervisor, as the respons make the choice of the alternative for implementation, based on the analysis of all of the effects i	ible official, will	
As the Fuels Manger for the Tahoe Douglas Fire Protection District, I urge to consider A the best option for protection of both the communities of the South Shore and the environment of the South Shore and the environment		9-1
Response: Thank you for your support of the project and of Alternative 2. The Forest Suppossible official, will make the choice of the alternative for implementation, based on the analytic effects in the EIS/EIR. Both of the action alternatives are designed to reduce the risk of wildfire that and the environment.	lysis of all of the	
Cal Fire supports Alternative 2 as it provides the greatest positive management impact t area. Cal Fire supports Alternative 3 as the next viable alternative, providing the next be positive management of the project area. Cal Fire cannot and does not support Alternative.	st acceptable	10-1
<u>Response:</u> Thank you for your support of the action alternatives. The Forest Supervisor, official, will make the choice of the alternative for implementation, based on the analysis of all of EIS/EIR. Both of the action alternatives are designed to reduce the risk of wildfire to lives, proper environment.	f the effects in the	

Subject Comment and Response Comment	nter-Comment#
the area in and around the Bridge Tract Forest Service Residence Tract would not be covered in proposed alternative number 3. This is a serious mistake as is evident by only a cursory review of area. There are numerous stands of trees adjacent to the residences containing diseased and dyit trees. The forest floor in nearby areas is choked with downed trees and is a disaster that could unfany time. For example, a stand of trees upstream and near the bridge is very crowded and needs sthinning. The stream bed in this area also contains a large logjam that only adds fuel to any fire the would occur. The likely prospect of a fire "crowning" would complicate fire suppression efforts and significantly to the danger of people being trapped in the narrow valley. Please adopt alternative 2 addresses these concerns. **Response:** Upon review of your comment by the interdisciplinary team, a portion of treatment around Tract (shown in Alternative 2 maps), is now incorporated in Alternative 3. The portion added back in baland defense zone standards for fire suppression and fuel loading with habitat needs (for spotted owl). Treatment this have been analyzed in Alternative 2, and is consistent with the LTBMU Forest Plan (as amended).	the ng fold at serious at add which ### Which #### ###############################
[See comments of letter writer 11]	17-1
Response: [See comments of letter writer 11]	18-1
Response:	
[See comments of letter writer 11]	19-1
Response: [See comments of letter writer 11]	20-1
Response:	
Economics	
Please include a cost estimate for a 30"-limit mechanical thin, including, at a minimum, the following respect to the Forest Service's net expenses (i.e., not the timber contractor): a) administrative cost USFS pertaining to analysis and appeals; b) costs to the USFS of sale preparation and administrative PER ACRE costs to the USFS of slash piling and burning; d) PER ACRE costs to the USFS of brum a maintenance following the mechanical thinning as a result of canopy reduction (this cost must be included, regardless of whether brush maintenance is required only 3-5 years after mechanical thin or 10-15 years after mechanical thinning; and no similar cost would be applied to non-commercial thinning since essentially no measurable canopy reduction would occur); e) the administrative cost the USFS pertaining to analysis and planning for the slash clean-up and brush maintenance project following the mechanical thinning; f) the projected timber sales receipts to the USFS from the timber and g) the total timber volume of the timber sale (in board feet of sawtimber, as well as tons of bior Please include citations to actual projects for all estimates. **Response:** The economic analysis that was completed for this project was designed with a 30" diameter breast height limit for mechanical thinning (see Chapter 3, Economics section.) Volumes proposed for remembers.	is to the tion; c) sh nning is to cits er sale; mass).
and acres proposed for various treatments were used as the basis for determining the Total Revenue, Total Or Present Net Worth, and the Benefit Cost Ratio. The following revenues and expenses were included in the arrevenue generated from sawlog and biomass removal; administrative costs to the Forest Service pertaining analysis, , sale preparation and administration; costs of road reconstruction and temporary road opening/cl mechanical harvest costs, mastication costs, small tree thinning costs, hand piling slash costs, pile burning and prescribed underburning costs. Future maintenance costs (estimated at 20 years after treatment) for ham mechanically treated units were included in the economic analysis in the project record.	Cost, nalysis: to losing, costs,

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Subject	Comment and Response	Commenter-Com	nment#
operations w retain cost ef generally sho	scribes proposed mechanical thinning: "The type of mechanical equipment ould depend on vegetation removal needs, operational feasibility, and cost ficiency as a major criteria you will wind up leaving more slash, cutting more circuiting your fuel reduction and forest health objectives. The "cost effect ediametrically opposed to the fuels and forest health objectives.	efficiency." If you re large trees and	12-6
the issue of co the use of a le whole tree sys been designed	The project purpose and need is not driven by maximizing the economic value consideration of cost efficiency. The project proposes the use of a range of harves set efficiency where this would not result in an adverse resource effect. An example set expensive whole tree removal system in lieu of a cut-to-length removal system we tem do not adversely affect soil or water quality resources. It is not the intent nor to leave more slash or cut larger trees to gain economic efficiencies. Cost effective dered where they compliment fuels and forest health objectives.	t systems to address e of this would be there the effects of a has the project	
Environmen	tal Laws		
forest mana years after letter, which letter's man letter as if it the massive	t is clearly attempting to implement the July 2004 letter from the Regional Fagers to reduce stand density to a level that will not exceed 60% of SDI-Mathinning. However, the DEIS does not divulge that it is implementing the direction in another case currently. Instead, the DEIS seeks to indicate without admitting this fact. Effectively, the Forest Service seeks to intend is a binding forest plan amendment, despite the fact that no EIS has ever be landscape-level adverse impacts that would result from implementation of Nevada national forests.	x for at least 20 rective in this nplement the mplement this been prepared on	1-2
density index i provided infor field experience not reference	The project purpose and need is defined in Chapter 1, under Purpose and Need the 3, Forest Vegetation section, under the Stand Density heading, discusses the notion order to meet the project purpose and need. Project silviculturist field observation on the existing conditions; research literature from Long (1985) and Fettigue formed the basis for defining desired conditions to meet the project purpose and the Regional Forester letter was not the basis structure and density for the South Shore project.	eed to reduce stand on, and stand exams g et al. (2007), and I need. The EIS does	
agency violat	service violated NEPA by failing to prepare an EIS before implementing the ted NFMA and the Appeals Reform Act by effectively amending the Sierral ment without going through proper public notice, comment, and appeal product.	Nevada Forest	1-3
Response:	This letter does not form the basis for prescription design for the South Shore pairs outside the scope of the project.	project; therefore,	

Subject	Comment and Response	Commenter-Com	ment#
The project an needlessly re 2001 Sierra I shows that, it sites and are while trees 3 average on lo	Is designed violates the Healthy Forest Restoration Act (HFRA) because it smove thousands of large old-growth trees up to 30 inches in diameter. The Nevada Forest Plan Amendment FEIS (Vol. 2, Ch. 3, part 3.2, p. 114, Table in eastside pine forest, trees 21" dbh are 150 years old on average on productivity sites (Dunning Site Class 4-10) dbh are 230 years old on average on productive sites and 300 years old on productivity sites. In mixed-conifer forests on low productivity sites, tree years old on average, and white fir 30 dbh are 301 years old on average of	would e e 3.2a) uctive 6), d on es 29	1-29
trees. Large to 30" dbh that we removed are 2	Please refer Treatment Prescriptions—Guidelines section of Chapter 2, wher hinning includes removal of small diameter ladder-fuel trees and retention of the larees are a priority for retention, small trees are a priority for removal. Trees equal would be removed are hazard trees or those that cannot be avoided for operability. O" dbh or less; only 39 stands in Alternative 3 and 48 stands in Alternative 2 would be 20-30" dbh to meet desired density conditions.	larger diameter l to or greater than Most trees to be	
Environment ActWe had concerns reg environment RWQCB con effects on SE <u>Response:</u> monitoring electorments and resource protes	reviewed thedocument pursuant to the National Environmental Policy Adal Qualityregulations, and our NEPA review authority under Section 30 are rated the DEIS as Environmental Concerns - Insufficient Information arding water quality monitoring, cumulative watershed effects, and impacts zonesIn light of these concerns, we recommend the Forest Service and sider implementation of an alternative that reduces, to the maximum extent EZs and watersheds already over the cumulative watershed effects threshod clarification and additional details for resource protection measures (mitigate the sent as a result of coordination between LTBMU, TRPA, and Lahontan Water Board Section measures, BMPs and monitoring elements are expected to prevent significant meficial uses, which is supported by the analysis included in the FEIS. See Chapter	op of the Clean Air due to our sto stream Lahontan t feasible, adverse old. ion measures) and sponse to public staff. The project and effects to water	2-1

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Subject Comment and Response	Commenter-Con	nment#
The federal courts have ruled that the 2004 Framework forest plan is illegal under NEPA the wrong forest plan. This project must be governed by the 2001 Framework FEIS and	_	3-7
<u>Response:</u> The District Court has not issued any injunction against projects implemented in the 2004 Framework.	under the direction	
Page 1-11 provides a list of significant issues expressed by the public that were determined the project. It is stated here that other issues expressed by the public were screened our significant. Disposition of these non-significant issues are stated to be in the project plan would be valuable to reviewers to have these non-significant issues listed in the DEIS.	t as non-	6-4
Response: Non-significant issues are not required to be included in the FEIS. They are trecord, as required by NEPA.	acked in the project	
The DEIS/DEIR states (p. 2-48) that MIS impacts are judged by large-scale changes in verses trends in the analysis area or at the forest scale. We strongly disagree with the a monitoring for declines at the bioregional scale would be sufficient to prevent a loss of d NFMA. If you ever had a range-wide impact it would be too late. This is a scientifically f that violates existing federal laws protecting species diversity under NFMA.	ssertion that iversity under	13-31, 14-31, 15-31, 16-31
Response: See Chapter 3, MIS section for a discussion of the interaction of the bioregional for effects. Habitat effects can be analyzed at the project scale, to insure that available suitable maintained, across the bioregion. For species with a range extending through the bioregion, mobioregion, combined with insuring habitat is available throughout the species range would allow rather than have segmented monitoring that would fail to measure changes.	habitat is mitoring at the	

Subject	Comment and Response	Commenter-Con	nment#
The South Sidecade. See Wildfire Prepresented a impacts. Un For example repeated for	Shore Project is first in a host of projects that are planned to go forward over USDA LTBMU 2007 (Lake Tahoe Basin Multi-Jurisdictional Fuel Reductive vention Strategythe South Shore Project is a component of this larger pand discussed in the 2007 Strategy, but never previously analyzed for enviroder CEQA and NEPA, the cumulative impacts of this larger project must be a, will the techniques and monitoring approach proposed in the South Shore future projects? What are the overall impacts to water quality and the Talet of converting this much acreage to highly managed forests?	on and roject, onmental e analyzed. re project be	13-8, 14-8, 15-8, 16-8
method to est unknown, and specific decis expected to o site-specific o project. Cun strategy is no	The Lake Tahoe Basin Multi-Jurisdictional Fuel Reduction and Wildfire Presents to be; a strategy. The strategy as a whole is not reasonably foreseeable, and the simulate effects where locations are vague, timing is unknown, specific activities and funding is unknown. The Strategy is not a site-specific project; and depends on spinons to meet those objectives. South Shore is a site-specific project, with on the-gocur. Whether the methods used for South Shore would be used in other projects applicability for those projects and the success of South Shore in meeting the purphental time of the success of South Shore in meeting the purphental site of the specific enough to produce measurable effects. The South Shore EIS clearly effects, both spatially and temporally.	here is no valid I their effects are subsequent site- round activities would depend on the ose and need for the reable effects; a	
method, supp effects, along included in th significant cu	umulative watershed effects using HUC 7 watersheds for spatial areas of analysis forted in the literature. All 18 HUC 7 watersheds with project units are analyzed is with all of the past, presently occurring, and reasonably foreseeable projects, when "Fuel Reduction and Wildfire Prevention Strategy" or not (See Appendix A). But a mulative effects projected in any of these watersheds from project implementation to the project implementation of the project implementation to the project implementation to the project implementation of the project implementation to the project implementation of the proje	for cumulative ether they are ecause there are no when combined with	
for a single project spec projects, wh Project is procumulative of is true that the document d	d in a recent TRPA Board packet, the Fire Commission recommendations environmental analysis and review process (e.g. EIS/EIR) to reach agreem diffications, permit conditions, (if applicable), and monitoring for fuel reduction ich agencies may rely on in addressing individual projectsthe South Shoposed to go forward, yet there appears to be no mechanism whereby the effects of fuel reduction on 68,000 acres in the Basin will be addressed. When Forest Service and Lahontan have prepared an EIS/EIR for this Project ones not purport to analyze implementation of the overall fuel reduction Stratainly a foreseeable future activity under CEQA and NEPA.	nent on on ore nile it c, the	13-9, 14-9, 15-9, 16-9
have been ide effects. The a	become a site-specific project proposal, it is not subject to NEPA or CEQA. White entified as possibly needing fuel reduction, it is not a proposal that is sufficiently suffi	le 68,000 acres may pecific to analyze se cumulative effects	

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Subject	Comment and Response	Commenter-Con	nment#
to Basin Plan b conjunction with in the Basin. U agency Lahont	re Project does not identify the significant impacts to Lake water quality a peneficial uses that may occur due to the planned fuel reduction activities the overall fuel reduction Strategy being implemented by the Forest Se Inder CEQA, this failure has a consequential result, which is that the lead an has not analyzed and required adoption of all feasible mitigation means or substantially lessen these potentially significant impacts.	, in rvice I	13-10, 14-10, 15-10, 16-10
Water Board in t design measures	The EIS includes an analysis of the cumulative watershed impacts to water quality South Shore Analysis area in Chapter 3 section D. The water quality requirementhe Basin Plan apply to this project and are shown in Table3-60. With the applicand BMPs identified in chapter two and appendix C these water quality requires see response to comment 13-2.	ents of the Lahontan cation of project	
under a waiver Here, the Fores	es not comply with the Basin Plan. Under Water Code § 13269(a)(1) a promust be —consistent with any applicable state or regional water quality at Service and Lahontan cannot make this finding, particularly in relation 3,000 acres within the Tahoe Basin that are proposed for fuel reduction a	control plan. to the overall	13-25, 14-25, 15-25, 16-25
	The Final EIS discloses that there are no significant impacts as a result of the permitting process with the Lahontan Water Board will necessarily conjury water quality under the authority of the Clean Water Act.	-	

1-8

Subject Comment and Response Comment#

Fire

The Fire/Fuels section of the DEIS states a goal of 15 tons per acre of surface fuel. However, the DEIS fails to identify the current level of surface fuel in the size classes relevant to fire behavior (fireline intensity, rate of spread, and flame length), choosing instead to lump all downed woody material over 3 inches in diameter into one category. The Forest Service's own science clearly states that this is baseless and inaccurate. Brown et al. (2003) shows that downed woody material over 8 or 10 inches in diameter has almost zero effect on fire behavior. Thus, the EIS must show the current level of surface fuel 0-3|| diameter and 3-10|| diameter, as recommended by Brown et al. (2003), in order to meaningfully evaluate current conditions with respect to fire....Further, the DEIS states that existing large snags would be removed in order to prevent them from becoming surface fuel. However, the DEIS fails to explain the scientific basis for removing large snags when the Forest Service's own science clearly shows that, if they fall, large logs are not a fire hazard. Moreover, the DEIS fails to divulge the fact that large snags, on average, take decades to fall, and provides no data on the likelihood of existing large snags falling over the next 10-20 years.

Response: See Existing Conditions-Surface Fuel Loads in the Fire Behavior and Fuels section in Chapter 3. The parameters for fire behavior modeling are discussed, including the definition of surface fuels as 0-3 inches that were used for fire behavior modeling purposes. Table 3-4 displays the average fuel loads by size classes that are meaningful for fire behavior, using standardized fire behavior models. Fuels 3" and greater diameter are considered 1000 hour-plus fuels, which gives a conservative analysis for the effect of larger material on fire behavior. Larger materials influence resistance to control, rather than rates of spread. Fire behavior modeling considers additional factors, including the height to live crown and crown bulk density, rather than more divisions in ground fuel sizes, in order to reflect the complexity found in the factors that influence wildfire behavior. See Chapter 3 – Direct and Indirect Environmental Effects for a discussion of the expected results for all of the alternatives. We have further clarified our rationale in the FEIS to include the following information as described in Chapter 2 Treatment Prescriptions, Rationale Used in Developing Alternative 2:

"Fuel models (Anderson, H.E, 1982) are used to estimate fire behavior, are applied when using some fire behavior models, and used as a tool for determining fuels treatments. Stands that have representative fuel models with fuel loads that are less than 6 tons per acre in the 0" to 3.0" size classes tend to have a surface fire type of fire behavior with low to moderate torching.

Objectives of the treatment are to remove surface fuels, such as down trees, to achieve a maximum residual surface fuel load of 10 tons per acre. In areas where stream zones or other wildlife habitat require a higher component of large down wood, a maximum of 15 tons per acre is acceptable. The desired fuel loads of 10 tons per acre is based on having up to approximately 4 tons per acre in the 0" to 3.0" size classes and allowing for approximately 6 tons of larger down logs per acre..

This range is also described as the "optimum of coarse woody debris for providing acceptable risks of fire hazard and fire severity while providing desirable quantities for soil productivity, soil protection, and wildlife needs" (Brown et al, 2003)."

Chapter 2, Treatment Prescriptions—Guidelines section specifies the priority for retention of large logs (greater than 20" dbh) in keeping with the Forest Plan for wildlife habitat; see Chapter 2 resource protection measures for both Fuels and Vegetation and Wildlife. As the comment states, snags may stand for decades, and because the rate and timing of snag fall is not predictable, it is not included in the EIS.

E-10 Appendix E

Subject	Comment and Response	Commenter-Com	ment#
the Forest	Service allowed slash piles from thinning to sit unburned for several years	prior to the 2007	1-27
	South Lake Tahoe, and that these areas with remaining slash piles burne		
	e crown fire) immediately adjacent to homes. The only thing that appears		
	s the removal of mature trees over 14 inches in diameter, since it is consis		
	f-interest of both the timber sale contractor and the Forest Service (which		
	eceipts) to do this. However, the portions of the project that would actually		
	erial that determines fire intensity and severity—portions of the project tha		
	nd do not generate revenue—do not appear to be guaranteed at all. This r		
	e could dramatically increase fire severity in thinned areas by increasing s	urface fuels. This	
	analyzed in the DEIS.	11 . 1	
Response:	The purpose of the South Shore project is not for economic gain. Thinning of l and mechanical treatments are done through a variety of contract methods that		
	nents performed within the same entry. Therefore, the thinning of all size classes $lpha$		
	ilents performed within the same entry. Therefore, the thinning of all size classes of Il treatments would be done in order to meet the desired conditions and objective.		
	and treatments would be done in order to meet the destred conditions and objective. Spied to decrease fuel loads, both surface fuels and ladder fuels, and restore forest		
	pter 1. The effects of hand thinning are discussed in Chapter 3 – Direct and Indire		
	With hand thinning, surface fuel loads are increased temporarily until the piles		
	owever, the fuel loads are significantly reduced. The thinning treatments have be		
	n the LTBMU, specifically, and discussed in "Effects of fuel treatments on fire sev		
	n interface, Angora Fire, Lake Tahoe Basin, California" (Safford et al. 2009). A		
fire severity in	thinned areas is not analyzed because it is not expected to occur, it would be con	trary to the	
objectives, pur	pose and need for the project.		
The Forest S	ervice should fully consider an alternative that only thins smaller trees and	brush	1-25
in the defens	ible space zone, offering this service to homeowners who wish to participa	te	
(thinning wou	lld occur on private land (for willing homeowners) and on public lands with	n 200	
feet of homes	s). This would actually protect homes, as proven by the example of the Ida	iho	
	sh, which survived a high-severity fire that dropped down to a low severity		
	ed the homes and went right through the town without burning a single ho		
	d 2008 article in the Idaho-Statesman).		
Response:	An alternative was considered in response to this comment. Chapter 2 Alterna	tives Considered	
	From Detailed Study considers the consequences of only thinning smaller trees of		
	ce zone and on public lands within 200 feet of homes. As detailed in Chapter 2, li		
	alternative does not meet the purpose and need for forest health, SEZ restoration,		
	WUI to provide safe and effective fire suppression.		

Subject Comment and Response

Commenter-Comment#

The DEIS claims to seek to protect homes from fire, but fails to divulge the fact that the Forest Service's own top scientist on this issue, Dr. Jack Cohen, concludes that the only effective way to protect homes is to reduce the combustibility of the home itself and to create defensible space within at most 100-200 feet of each individual home (see Dr. Cohen's research at www.firelab.org). The DEIS ignores this science and proposes projects far from individual homes, which will only give homeowners a false sense of security and divert scarce resources from the defensible space zone (within 100-200 feet of homes) to an unnecessary and counter-productive logging project far from homes, wherein thousands of fire-resistant mature trees will be removed. If anything, this will leave homes more vulnerable.

This website reference to Dr Cohen's research for "Protecting Your Home From Wildfire" focuses on what actions homeowners can take to protect their home from fire, but not what happens beyond the homeowners property boundary. The statement above regarding "the only effective way to protect homes..." is not supported by this website. The project is designed to treat fuels within the three WUI zones on National Forest lands, much of which is adjacent to, and within 100-200 ft, of homes, schools, and businesses. While it is true that defensible space for homes is critical to effectively change fire behavior within neighborhoods, the Forest Service has jurisdiction only on National Forest land, and cannot mandate that homeowners provide defensible space on private property. The local fire protection district(s), along with city, county and state governments have the authority to enforce building codes and defensible space on private property within their respective districts. See Executive Summary, Purpose and Need for Action, Chapter 1 Purpose and Need for Action, Forest Plan Direction, Public Involvement, and Decision Framework for a discussion of the Forest Service jurisdiction. The research findings used in the Sierra Nevada Forest Plan Amendment (SNFPA, 2004) are the basis for designation of the WUI, and findings from Safford et al. (2009) conclude that that prior fuel treatments within the Angora Fire perimeter generally performed as designed and substantially changed fire behavior and reduced subsequent fire effects to forest vegetation. See Chapter 2, Treatment Prescriptions; the intent of the South Shore project is to retain fire-resistant mature trees, and thin out smaller ladder-fuel trees.

E-12 Appendix E

1-24

Comment and Response Commenter-Comment# Subject The Fire/Fuels section of the DEIS claims that much of the project area is likely to burn at high severity by 1-9 virtue of the fact that it is Condition Class 3, meaning that it has missed more than 2 fire return intervals. However, actual data does not support this assumption. Condition Class 3 areas burn mostly at low and moderate severity, and do not burn more severely than Condition Class 2 areas (Odion and Hanson 2006, Odion and Hanson 2008)....The claims in the DEIS about Condition Class and fire are flatly inaccurate. The FEIS does not claim this. The discussion of Condition Classes found in Existing Conditions Response: of the Fire and Fuels section of Chapter 3 in the FEIS provided as background information for a classification of the existing conditions, rather than as a basis for modeling fire behavior. The referenced materials do not provide percentile weather, topographical features or fuel moistures (live and dead) which are factors influencing fire severity.

Subject Comment and Response

Commenter-Comment#

1-13

Recent research provides evidence that seriously questions the very basis for thinning and its assumed effectiveness. Rhodes and Baker (2008) found that, based upon the fire rotation interval for high severity fire, and assuming an effectiveness period of 20 years for a mechanically-thinned area (i.e., before it would need to be treated again to maintain effectiveness from a fire/fuels perspective), the probability of a thinned area encountering a high severity fire patch during the 20-year effectiveness period (assuming for the sake of argument that the thinning actually does reduce fire severity during this period) is only about 3.3% in California's forests. It would be less than 2% if an 11-year thinning effectiveness period is assumed (Rhodes and Baker 2008). This means that, in order to have a 50% chance of having the thinned area reduce the severity of a fire patch that would have otherwise been high severity, the thinned area would have to be re-thinned every 20 years for about 300 years (see Rhodes and Baker 2008). Please fully analyze the implications of this new data, and please also fully divulge whether you intend to re-thin this area over and over again every couple of decades or so for the next three centuries or so in order to have a reasonable probability of having the thinning area ACTUALLY prevent high severity fire from occurring in the thinned area. If so, please fully analyze the cumulative environmental impacts on wildlife, soils, and watersheds from such repeated mechanical activities on this site. If not, please divulge the fact that the probability that the thinned area will NOT encounter a high severity fire area is about 97% or greater, and that your thinning activities are extremely unlikely to be effective in any tangible or meaningful way for fuels/fire management.

Thinning needs to occur within the WUI regardless of a predicted timeframe for when a wildfire might occur. The use of probability of a fire occurrence is inconsistent with this projects purpose and need that includes fuels reduction and forest health as objectives. This is described in Chapter 1. While the frequency of wildfire occurrence over a prolonged time period may be low, the risk to resources, lives, and property is high under the no action alternative, as discussed in the alternatives comparison in the Fires and Fuels section of Chapter 3. It is well known and documented that thinning is both effective at reducing ladder fuels and improving residual tree vigor, stand health and forest health (See Chapter 3 Vegetation and Fuels analysis). Safford et al. (2009) concludes that that prior fuel treatments within the Angora Fire perimeter generally performed as designed and substantially changed fire behavior and subsequent fire effects to forest vegetation. This research supports Forest Service management experience indicating that fuel and vegetation treatments being carried out in Lake Tahoe would be effective in reducing fire severity and increasing forest resilience. It is expected that certain areas of the project would require maintenance treatment (thinning and fuel reduction) when necessary (10-20 years) utilizing mechanical treatment or prescribed fire (Chapter 3 Forest Vegetation, Density). However, specific areas requiring maintenance would not be known for several years. Events such as fire, drought, and insect outbreak would make it impossible to determine future maintenance needs and therefore makes it infeasible to analyze cumulative impacts to resources.

The FEIS should include a summary of the [Community Wildfire Protection Plans] and describe actions being taken by the communities and Forest Service to ensure fire protection efforts are consistent, complementary and fully integrated. For instance, describe whether local housing and fire safety ordinances are consistent with the effort to reduce and minimize excessive fuels. We support the project component that would provide environmental education for the community as part of the South Shore Fuel Reduction and Healthy Forest Restoration Project (p. 2-23). We recommend this educational program include information on what homeowners and recreational visitors can do to protect their homes and recreational areas, and opportunities for public involvement in the future planning, design, and implementation of the proposed project.

<u>Response:</u> A summary of Community Wildfire Protection Plans (CWPP) is outside the scope of the project. The LTBMU coordinated and collaborated with the affected fire departments on treatment design and location which is reflected in the identified treatment. See Chapter 1, Background, LTBMU Fuels and Healthy Forest Restoration Direction. Public education efforts are ongoing, both within and in addition to the South Shore project.

2-6

E-14 Appendix E

Subject Comment and Response	Commenter-Com	nment#
Pg. 2-8 Prescribed Fire. States that burn piles will be located up to 10 feet from the edge streams and then two bullets down goes on to state the burn piles will be permitted up to ephemeral streams. Given the lack of science on this topic, the location of burn piles on ephemeral streams (streams capable of transporting sediment to other streams) or up to ephemeral streams does not seem adequate to provide protection to water quality. TRP further discuss this issue to work out alternatives and BMPs to ensure protection of water the edge of ephemeral channels is correct, the other bullet has been distance was agreed upon by Lahontan Water Board, TRPA, and LTBMU staff as adequate protection of water phemeral channel features and water quality. In addition, subsequent monitoring as described in	the edge of the edge of the edge of the edge of the trom the trom the tropic of the edge o	3-2
used to ensure that these resource protection measuresprovide adequate protection, and allows from management to change these measures if monitoring indicates a need.	or adaptive	4-3
It seems likely that treatment in the Echo Lake area will result in the piling and burning of If(that) is correct, what steps will be taken to ensure that those prescribed burns do not surrounding forest land or recreation residences and how was that effect evaluated in the Will a burn plan with adequate safety measures be prepared? Shouldn't a representative included in the document for public review and comment? This plan should acknowledge means of containing a fire in the Echo Lake area due to limited access while providing domethods that would be employedIt should also identify the time of year that burning with snow on the ground is often desirable, that is typically the most difficult time Echo Lake area.	ot spread to e Draft EIS/EIR? e burn plan be e the limited etails on the vould occur. While	
Response: Prescribed Burn Plans are required, and are prepared, for all prescribed fire to plans describe the time of year, safety precautions (firefighters and public), environmental prescribehavior prescription, and expected fire containment resources needed. Burn Plans are not required under NEPA, they are part of project implementation.	ription, fire	
I understand that temporary closures of work areas will be required. Additionally, it apperents that temporary closures of work areas will be required. Additionally, it apperents would typically occur during the recreation off-season, which is greatly appreciat unclear how this will be carried out in relation to the actual thinning process versus the by While not explicitly described, it is typical for piles to be left for one to two years prior to launder those piles will obviously be inaccessible, but how will the surrounding areas be to closures? Similarly, how will appropriate locations for piles, given that they will likely be pultiple years prior to burning, be determined?	ted. However, it is burning process. burning. Areas reated in regard to	4-4
Response: Typically work area closures are put in place during thinning operations when need to do so for public safety. Area closures for burning could also be used for public safety. Le burning are determined on a site by site basis and take in to account environmental conditions at as public and firefighter safety. See the Recreation resource protection measures of Chapter 2 for reduce conflicts with recreation use. It is expected that normal recreational use of the Forest work areas surrounding burn piles when burning is not taking place.	ocation of piles for nd effects, as well r the means to	

Subject	Comment and Response	Commenter-Com	ment#
In response requires cool treatment are treatments to the cabin ow existing computed by the carried out, in Response: prescriptions, and special treoperator safet practical. Close notification, respecial uses of an opportunity provide an opportunity provide an opportunity of the capital cool treatment of the capital cool to	to many of the issues identifieda Best Management Practice should be a radination with cabin owners/recreation residence permit holders that are in the east during development of site specific treatments. This would allow for site of the designed in a way that: (1) meets the purpose and need of the project; ner/permittee's knowledge of the landscape and site-specific conditions; (3) mitment to coordinate temporary closures to the extent feasible; (4) coordinate agement efforts(5) promotes a shared responsibility for long-term steward part, during the implementation of each permittee's annual maintenance at the Forest Service would conduct tree and boundary marking in order to meet Marking prescriptions around cabins would take into account numerous factors is the characteristics. Area closures would occur during thinning treatments to ensure y. Efforts would be made to adjust timing for closures to avoid high recreation use some information would be disseminated to cabin owners prior to the closure. To ensure information would be disseminated to cabin owners prior to the closure. To ensure information. Scoping for the South Shore project included recreation residence associated to cabin owners to provide input for the project. Recreation residence special us portunity for shared responsibility for stewardship in these areas during discussion for for annual maintenance activities.	close proximity to e specific (2) capitalizes on of fulfills the lates with other diship that can be activities. It stand specific including tree health the public and in periods when insure ample the provide of the provide of the permits also	4-5
Lake is included the a for recreation paper for mee Lake were expuper Echo L to include the being analyzed.	ribe in more detail how specific areas were identified for treatment. For exacted while upper Echo Lake is not, yet, to a certain extent, there are conditionally to those found on lower Echo Lake. Treatment areas were identified through interdisciplinary team review starting ssociation presidents of all recreation residence tracts, specifically so that there we residence owners to express any concerns they may have had. Notice was also protings and summer field trips to inform the public about the project. No concerns for the sessed during scoping. The South Shore interdisciplinary team evaluated the possake in the project, but, due to the lack of resource surveys and other field work that area, it will not be included in the South Shore project. However, Upper Echo Lad of fruel treatment under a separate environmental analysis (NEPA). Upper Echo in may begin after completion of the Upper Echo Lake NEPA analysis and decision.	ons on upper g in 2006. Scoping as an opportunity ovided in the local rom Upper Echo sibility to include at would be needed ke is currently Lake area	4-2
Page 2-11 ar removal relation concerns for and older treinevitable an Response: operators, made hazardous South Shore pwithin the Angertal removal relation removal re	and 12 discusses hazard tree removal on urban lots. No discussion was noted to other situations such as recreation roads and trails. I have previously the aggressive removal of hazard trees within the Angora Fire area, especies. Please use a less aggressive prescription within this project area. Some discussion to the tolerable within forested areas. Trees determined to be hazardous to thinning crews, or mechanical equipment by be felled during operations if deemed necessary by the Contract Administrator. Within or outside of identified Urban Lots may also be removed if necessary for purpoject is, however a fuels reduction project and not a hazard tree removal project for a Fire area. The treatment objectives and prescriptions will not be the same. The in Chapter 2- Proposed Action. See response to comment 1-8.	ed of hazard tree stated my ially with large e small risk is and their Trees determined to blic safety. The as was the case	6-3

E-16 Appendix E

Subject Comment and Response	Commenter-Comment#
The effects section uses fire regime and condition class as metrics. Fire regime is measured predictable. Condition class is not measurable and is entirely subjective. Condition class to be used at national and regional scales. Please do not use condition class at the projection.	was developed
<u>Response:</u> In order to meet a requirement of the Healthy Forest Restoration Act (2003) the pranalysis of condition class to relate the existing conditions to the national descriptions. The effect additional factors such as: fire type, weather, fire behavior, surface fuel loading and, flame length description of the scope of the analysis and indicators used is disclosed in Chapter 3, at the begin and Fuels section.	ts analysis used th. A complete
on 3-16, the effects discussion ignores the effect of mechanical thinning in creating trause. The Tahoe has had no success in preventing illegal ATV use, and this project will be This is a major problem, because in reducing the hazard of the fuels the agency has increased by ATV vehicle fires, often far from roads and therefore far from the reach of pum attack. I remind the agency that 14% of wildfires in California are started by vehicles. AT You need to explain how you are going to mitigate this fire risk.	re no different. reased the risk per-based initial
<u>Response:</u> The project resource protection measures in the Transportation and Access (Rechapter 2 describes mitigations to discourage establishment of user created routes after treatment specifically described in R-18 through 20 These include barriers and decommissioning temporary LTBMU also provides maps and signage to designate where OHV use is allowed.	nts. These are
this EIS ignores the "Guidance for Implementation of Federal Wildland Fire Management (February, 2009). That guidance document was signed byFire & Aviation Management Department of Agriculture Forest Service. This guidance is not referenced in this DEIS. I how this project implements Federal Wildland Fire Management Policy.	it, U.S.
<u>Response:</u> Implementation of the 2009 Fire Management Policy is specific to wildland fire is outside the scope of this fuels reduction and healthy forest restoration project.	e suppression and
the DEIS/DEIR (p. 3-11) it states 10% of ALL DAYS are 90th percentile. However, the Watershed Assessment (p. 441) states that on average 10 days each year exceed the 9 weather. Please clarify and explain this discrepancy.	
<u>Response:</u> The apparent discrepancy is from using two different metrics. The Lake Tahoe Assessment used the average number of 90 th percentile weather days, with the median metric of the Component value for each weather class from 1973 through 1996 and determined "10 days a year percentile.	he Spread
The FEIS uses site specific information based on the Meyers National Fire Danger Rating System using the Burning Index metric over a longer time period (1973-2007) to more accurately reflect project area during fire season. Analysis of this data shows that 10 percent of all days are in the	t fire danger in the

Comment and Response Commenter-Comment# Subject **Fuels Treatments** 1-17 The DEIS implies that intensive mechanical thinning up to 30" dbh is necessary to reduce potential for severe fire. However, recent scientific studies have found that precommercial thinning of sapling and pole-sized trees only (up to 8-10 inches in diameter) effectively reduces fire severity. See, for example: Omi, P.N., and E.J. Martinson 2002....Martinson, E.J., and P.N. Omi. 2003....Strom, B.A., and P.Z. Fule. 2007. Response: We agree, as the research cited suggests, that in many cases the reduction of only the smaller trees are enough to reduce fire severity, however, the purpose and need for the South Shore project includes both fuels reduction and forest health. In order to meet the forest health and fuel reduction objectives, the thinning prescription would be to thin from below, taking the smallest trees (suppressed and intermediate) and continue to thin trees of increasing diameter until the desired fuel reduction and stocking level are reached (see Chapter 2 Treatment Prescriptions). The FEIS does not imply any trees of a specific size are necessary for removal to reduce severe fire potential. Consistent with the literature cited in the comment, an objective of the project includes targeting smaller sized trees for thinning while retaining larger trees, and pine species with increased resistance to

drought and fire. This objective considers how the project's fuel and forest health treatments help restore fire closer

to its historic regime.

E-18 Appendix E

Subject Comment and Response

Commenter-Comment#

1-18

...the DEIS assumes that mechanical thinning, as you propose, will reduce, rather than increase, potential for severe fire. There is ample evidence to contradict this....Even in an area (Eldorado National Forest) that was mechanically thinned very shortly before the fire, and was masticated (material <10|| diameter) mere months before the fire, had higher combined mortality from thinning and fire than the adjacent unthinned area (Hanson and Odion 2006). Another recent study found the following: —Compared with the original conditions, a closed canopy would result in a 10 percent reduction in the area of high or extreme fireline intensity. In contrast, an open canopy [from fuel treatments] has the opposite effect, increasing the area exposed to high or extreme fireline intensity by 36 percent. Though it may appear counterintuitive, when all else is equal open canopies lead to reduced fuel moisture and increased midflame windspeed, which increase potential fireline intensity|| (Platt et al. 2006. Annals of the Assoc. Amer. Geographers 96: 455-470). An unpublished manuscript by the Forest Service's Hugh Safford (Safford 2008) concluded that the mature forest areas that had previously been mechanically thinned (i.e., including some mature tree removal) burned mostly at high severity in the 2008 American River Complex Fire Area, and that mastication/chipping and lop/scatter increased fire severity, yet you still propose to remove many mature trees and chip/masticate and lop/scatter slash on thousands of acres. You have not analyzed, or adequately analyzed, this type of evidence from actual wildland fires burning through areas mechanically thinned. Instead, your documents make assumptions or rely upon modeling results, which are based upon assumptions that may not reflect actual real-world fire behavior. Increased fire severity could result from: a) increased mid-flame windspeeds due to a reduction in the buffering effect of mature tree boles; b) slash debris (even if you make efforts to reduce slash, this is never totally effective, and much slash remains—enough to perhaps increase overall surface fuels relative to current levels, which the current analysis does not adequately discuss); c) accelerated brush growth due to increased sun exposure; and d) desiccation of surface fuels due to increased sun and wind exposure.

<u>Response:</u> The FEIS uses flame length as an indicator for fire intensity (fireline intensity) as described in Chapter 3 Fire and Fuels. In this response it is important to recognize the differences in fireline intensity and fire severity because the commenter uses each term interchangeably. Fireline intensity is a measure of heat release during a fire (at the fireline) while fire severity is the degree to which a site has been affected by the fire; a product of fire intensity (usually measured by impacts to soils or tree mortality).

We recognize the limitations of mastication as suggested in the cited papers. However, the effects of thinning and fuels treatments were analyzed utilizing current research, best available modeling tools, and knowledge based on extensive experience from working directly with fire both in controlled and wildland situations. The above research is correct in the fact that opening the forest canopy through thinning may increase surface winds and dry surface fuels, thus potentially increasing flame lengths during a wildfire. However, this project when completed will reduce surface fuel loads as described under Treatment Prescriptions in Chapter 2. Mastication of treatment units would only occur in areas where fuel loads are within the desired limits after the mechanical thinning treatment. This means that the mechanical thinning will remove live and dead surface fuels to the desired amount prior to mastication, while reducing CBD and CBH. Mechanical thinning may produce minor amounts of activity fuels (on the ground) in the form of tree limbs and branches. However, the total fuel loading after mechanical thinning is significantly reduced from the current fuel loading conditions (Chapter 3 Fire and Fuels, Environmental Consequences). These activity fuels would then be masticated in order to re-arrange the fuel loads closer to the ground, disconnecting them from the tree canopy (Chapter 2 Treatment Prescriptions). This may increase midflame windspeed, drying of fuels under a more open canopy and encourage grass and brush growth. However, in the event of a wildfire the modeled fire would primarily remain a surface fire and not transition into a passive or active crown fire which is one objective of this project. Surface fire conditions allow for safe and effective suppression operations that meet the project purpose and need as described in Chapter, Purpose and Need #1. Furthermore, according to the analysis presented in Chapter 3 Fire and Fuels Environmental Consequences the modeled flame lengths post treatment (Alternatives 2 and 3) are significantly reduced and within desired conditions as compared to the current conditions (Alternative 1 No Action).

Subject	Comment and Response	Commenter-Com	ment#
behavior" as mechanical th neighborhood intensity whill effectiveness	the modeling analysis in Chapter 3 Fire and Fuels is further validated by "actual receividenced by the Angora Fire (located within the project analysis area) in 2007. Painning and fuels treatments (as similar in the South Shore Project) were conducted is affected by the fire. These treatments reduced fuel loading from current conditions be brining the fire in the treatment units to the ground as a surface fire (Murphy et a coft these types of fuels treatments is further validated by Safford et al. (2009)in "Eff fire severity in an area of wildland-urban interface, Angora Fire.	rior to the fire, I near a ns and reduced fire l. 2007). The	1-18, Cont.
management prescription <u>Response:</u> fuels reduction	ain your proposal of a 30" dbh limit for mechanical thinning, in the context of it proposal, when no peer-reviewed, published scientific literature recommer as being necessary or effective in the context of fire/fuels management? Please refer to response to 1-17. The purpose and need for the South Shore propose and forest health. The prescriptions for both alternatives integrate fuels and forest objectives as expressed by SDI and Basal Area are described in Chapters 2 and 3 (oject includes both	1-19
analysis and all of the fina <i>Response:</i> Eliminated Fr <i>Action and Prhealth. The 1 proposed acti</i>	consider alternatives with a 12' and 16' dbh limit in mechanical thinning unital decision documents must include a full comparison of all fire/fuel modeling all alternatives that are fully considered An alternative was considered in response to this comment. Chapter 2 Alternation Detailed Study considers the consequences of limiting diameter sizes. As stated urpose and Need sections of Chapter 1 of the FEIS, the goal of the project is fuel really and 16" DBH alternatives would not meet the project goals and objectives described and purpose and need, both in providing a stand density that is more resistant to restoration of SEZs including aspen stands, and improving species composition.	ives Considered but d in the Proposed duction and forest ribed under the	1-20
objectives of level and the result is that that the mos succession s and sterile. Clumps of sr	brough 2-33 describe the design features for implementation of treatments to the project. Generally, removal of vegetation to achieve the targeted basal edesired fuel loading progresses from the smallest trees toward the maximum the residual stands are mostly comprised of the larger trees. In many respect fire resistant trees are retained and the stands will progress most rapidly to stages. However, these open, park like, stands lack diversity and are visually the treatment prescription should allow and encourage some deviation to remailer trees at spacing that does not compromise the overall objective of rediction of forest health.	area stocking am allowable. The ects this is good in oward late y homogenous etain groups of	6-1
variability in Jeffrey pine of Forest Vegeta growing trees trees in the un objective requ	Although the general thinning treatment calls for taking the smallest trees first ted to meet fuels and stand density objectives, the stand specific prescriptions will althe removal of differing size class trees. Examples include species preference, such ver white fir, or a healthy tree versus and unhealthy tree. According to the analysistion, some trees in the mid-story and understory would be retained where they are a that are isolated from serving as ladder fuels. Some wildlife stands would have much a treatment of the meet required habitat conditions. The project is compliant with a tree in the Forest Plan (see Chapter 3 Scenic Resources). In addition, resources scenic resources are described in Chapter 2 of the FEIS.	low for some as maintaining s in Chapter 3 healthy well- ore of the smaller h the visual quality	

E-20 Appendix E

Subject Comment and Response	Commenter-Comment	#
Page 2-10 states that treatments would be prioritized by proximity to where people live fuel hazard level, and other resource concerns. More detail would be helpful to the publ understanding how soon specific areas of interest (usually the neighborhood in which the treated. That detail might be an indication of the planned location and scheduling of indication of the planned location.	lic in ney live) would be	5
<u>Response:</u> This statement is meant to communicate that there are several factors that will the actual work is scheduled. It is not possible to predict with certainty the timing of activities w. Scheduling information will be available when implantation starts, and news releases and updat website would also give advance notice of on-the-ground operations.	ith this project. tes on the FS	
Page 2-5 describes proposed mechanical thinning: "To achieve the desired conditions f stand densities live and dead trees removed would range between 3 to 30" diameters a (dbh)." If you are cutting healthy 30 inch DBH trees, you are not affecting surface or (in ladder fuels. You could make the argument that you are reducing Crown Bulk Density, the most fire scientists place CBD dead last as a factor in wildfire rate of spread and resistated You could certainly use the stand density/water stress/ bugs argument, but how many stand trees?	nt breast height most cases) but as you know, ance to control.	5
Response: Based on the modeling there are approximately 48 stands in Alternative 2, and 39 Alternative 3 that require tree removal between 20" and 30" dbh to reach desired stocking levels Chapter 3, Forest Vegetation, Stand Density, Mechanical Treatment Thinning Areas for Alterna Depending on individual stand conditions during implementation, additional stands could require trees up to 30" dbh.	s (as described in tives 2 and 3). re thinning of a few	
This portion of the document [Ch. 2, Alt. 2] does not seem to distinguish between pile be underburning. These are two distinct operations with different costs and very different e		4
<u>Response:</u> Based on this comment, the FEIS has been revised to clarify the distinction bet and underburning (Chapter 2, Follow up Fuels Treatments and Tables 2-2 and 2-4).	tween pile burning	
Table 2-3 shows that the proposed treatment does roughly 4,000 acres of pile and burn or mastication, 400 whole tree yarding and only 850 acres of under-burn. The Angora fi through both hand-pile-and-burn units and whole tree yarding units. Part of the reason rethat the 0 to 1/4 inch surface fuels are left largely intact by these treatments. The very lot typical of Jeffrey and ponderosa pine litter layers allows this type to generate pretty resplengths, especially in high wind conditions. If you do your mechanical treatment, pile but under-burn the thinned stands you will get a much lower rate of spread, resistance to conseverity. We realize that parts of the project are close to structures, but according to the many acres that are more than one half mile from structures. You should be able to safe more than 840 acres. We hope you will consider increasing this acreage in your final definition to the community will ultimately be safer for it.	re blew right may have been bw packing ratio pectable flame rn, etc, then bontrol and lower e map there are ely underburn far	7
<u>Response:</u> The FEIS takes into account the type of thinning treatment, amount of surface stand location and topography, air quality, treatment cost, and species composition, when deter follow-up underburning (See Chapter 2 Follow-up Fuels Treatment). We believe the acreage prounderburning for each alternative represents the maximum feasible amount for this project.	mining stands for	
Chapter 2 describes the alternatives, including the proposed action. Within the alternative the fuels prescriptions should state what the agency proposes to do. The fuels prescript imprecise.		2
<u>Response:</u> The FEIS has been revised to clarify the fuels prescriptions within each alternations follow-up Treatments and Treatment Prescriptions).	ative (Chapter 2	

Subject	Comment and Response	Commenter-Comment#
treatment in a maximum a with mechan <u>Response:</u> stand location follow-up und underburning not include for	owing body of science indicating that thinning followed by burning is the maclosed canopy conifer mixed standsThis proposal does a minimum amount of thinning. Research done right in the Sierra Nevada shows that ical slash treatment is less effective than thinning and burning. The FEIS takes into account the type of thinning treatment, amount of surface and topography, air quality, treatment cost, and species composition, when dete berburning (See Chapter 2 Follow-up Fuels Treatment). We believe the acreage profereach alternative represents the maximum feasible amount for this project. Profered the south shore project. See responses	ount of burning and thinning combined e and activity fuels, rmining stands for rescriptions that do ed levels and change
to the added Tahoe Basin Response:	ng the EIS/EIR and the three alternatives, TRPA's preferred alternative is environmental protections and design features that seem better suited to . Thank you for your comment. As the responsible official, the Forest Supervisitect an alternative.	working in the
Page 2-4 sta supplied from loading and a <u>Response:</u> 2, Follow-up? treatment unit are close to re	Intes: "Providing biomass would be preferred to burning wherever feasible, in a variety of the proposed treatments." Biomass has a completely different arrangement than burning. The document appears to equate the two. The FEIS has clarified the distinction between the use of biomass removal and Treatments). When feasible, the fuels would be removed by chipping and hauling as instead of piling and burning, which reduces the need for mastication. Where he wads, biomass could be made available for the public as firewood. Providing biomass burning needed and reduce smoke production in the project area, while providing	nt effect on fuel ad burning (Chapter from mechanical and thinning units mass could reduce g biomass to biomass
The indirect treatments a With so little may allow ar Response: stand location follow-up und underburning follow-up und models with surface fire t in all propos	6 the agency asserts: "Alternative 2 would result in reduced aerial and sureffect would be to reduce hazardous wildland fire behavior from fires both nd from outside point sources (Graham et al. 1999)." This statement is no under-burning you will do very little to reduce 0 to 1/4 inch fuels in the litter Angora type event to occur. The FEIS takes into account the type of thinning treatment, amount of surface and topography, air quality, treatment cost, and species composition, when deterburning (See Chapter 2 Follow-up Fuels Treatment). We believe the acreage profere ach alternative represents the maximum feasible amount for this project. Starburning will leave fuels from 0-1/4 in the litter layer. Stands that have represented loads that are less than 6 tons per acre in the 0" to 3.0" size classes the type of fire behavior with low to moderate torching. The objective for meeting type based on FVS modeling.	originating within t really correct. or layer. This in turn e and activity fuels, rmining stands for roposed for ands that do not have sentative fuel nd to have a ting fuel reduction
fire, "Effects of	e in the Lake Tahoe Basin has shown the effectiveness of similar fuel treatments a of Fuel Freatments on Fire Feverity in an Area of Wildland-urban Interface, Ang nia" (Safford et al. 2009).	

E-22 Appendix E

Subject Comment and Response	Commenter-Com	
The document repeatedly uses the term "feasible" without providing examples of what is or Providing such examples would allow the reviewer to better understand the likely treatment area. The document should also describe the process for determining site-specific treatments.	ts for a given	13-14, 14-14, 15-14, 16-14
<u>Response:</u> The description of Alternatives 2 and 3 as well as resource protection measures in been revised to clarify the use of the word feasible. Feasibility is evaluated based on cost, effective environmental consequences, timing, and other limitations. The FEIS has been revised to further classifier determining site-specific treatments (Chapter 2 Treatment Prescriptions for alternatives 2 and 3	ness, safety, arify the process	
The document fails to adequately consider alternatives to pile burningThe EIS must conavailable methods for removing thinned materials throughout the South Shore project area must include the different options available for removal, the methods, time and cost, and cost the methods, time and cost (including staff time in preparing smoke management plans and approval from appropriate air regulatory agencies) involved in performing pile burning. Add Forest Service must consider the impacts of every burn day used for a pile burn that could have been used for ecological understory burning, and the costs associated with not perfor understory burns and/or delaying them into future yearsFurther, the DEIS/DEIR fails to a value of alternatives to pile burning to the protection of ecological function of the forest, sucremoval to alternative energy plants, chipping, and other ecologically friendly alternatives. **Response:** The FEIS takes into account the type of thinning treatment, amount of surface and stand location and topography, air quality, treatment cost, and species composition, when determine follow-up treatments (See Chapter 2 Follow-up Treatment). On certain stands, not all fuel treatment available due to above factors. The FEIS has clarified the distinction between the use of biomass an (Chapter 2, Follow-up Treatments). We believe the acreage proposed for prescribed burning for each represents the realistic amount for this project. When feasible, the fuels would be removed by chipp from mechanical treatment units instead of piling and burning, which reduces the need for masticate thinning units are close to roads, biomass could be made available for the public as firewood. Prov would reduce the amount of burning needed and reduce smoke production in the project area, while biomass to biomass facilities and the public.	The analysis ompare this to digetting itionally, the otherwise raining the analyze the ch as biomass activity fuels, ing stands for the methods are diburning the alternative bing and hauling ion. Where hand itiding biomass	13-26, 14-26, 15-26, 16-26
The DEIS/DEIR fails to consider and disclose testing specific diameter classes in narrow in as to provide specific information about where in proposed treatment areas does a certain thinning allow for attainment of fuels objectives. We requested this examination in our comproposed action in order to understand where the resources objectives are met for the Sou Project. Generally surface fuel treatments alone change fire behavior from crown fire to sur a variable distance related to wind speed and slope. With small diameter thinning, this only distance. Again we ask the LTBMU to model via dbh increments, zone of effective treatmenders. In this respect, we note that the DEIS/DEIR (p. 3-23) finds that treating surface fuels behavior from passive crown fire to surface fire in many stands. **Response:** An alternative was considered in response to this comment. Chapter 2 Alternative: Eliminated From Detailed Study considers the consequences of limiting diameter sizes. **As stated in Action and Purpose and Need sections of Chapter 1 of the FEIS, the goal of the project is fuel reduct health. **Considering 2" diameter class increments would not meet the project goals and objectives of the proposed action and purpose and need, both in providing a stand density that is more resistant to insects and disease, restoration of SEZs including aspen stands, and improving species composition.	level of ments on the th Shore face fire over anarrows that at levels in the changes fire s Considered but a the Proposed etion and forest described under to drought,	13-32, 14-32, 15-32, 16-32

Subject	Comment and Response	Commenter-Com	ment#
Heritage			
throughout th	ronmental Protection Department is aware that cultural archaeological sites e proposed project area and asks that if at any point artifacts are found, op D, as well as the Tribe's cultural resource coordinatorbe contacted.		8-2
Heritage Reso	The Heritage Resources section of Chapter 2 contains resource protection med re found, operations would cease and both the Washoe Tribe of Nevada and Califources personnel would be contacted immediately. Operations would not resume used, and flagged to avoid disturbance of artifacts.	ornia and Forest	
Miscellaneo	us		
The Departm offer.	ent of the Interior has received and reviewed the subject document and ha	s no comments to	5-1
Response:	Thank you for your review.		
Snags			
have no way	e DEIS identify the current density of large snags in each proposed logging to know whether the current density of large snags in the project and analy nimums required by the Sierra Nevada Forest Plan Amendment.		1-6
the units would	As directed by the Forest Plan as amended by the Sierra Nevada Forest Plan As were determined for the project in accordance with the guidelines. Prescriptions I include the retention of 4 to 8 snags per acre (Chapter 2, Treatment Prescription usure WL -8). For example, PACs would require up to 8 snags per acre.	for treatment in all	
forest. Howe the forest, an levels are red each size cla states that ex how the plant	Ites that a key objective is to reduce future mortality of trees ostensibly in over, the DEIS does not explain the ecological damage that large snags suput fails to divulge the damage that would be caused to numerous forest spelluced further from current levels. Nor does the DEIS divulge the current dess (this should be presented for each proposed mechanical thin unit). Furtisting large snags will be removed, but fails to divulge how many would be need removal of large snags would affect large snag densities in each unit, able—as well as the impact of this on native cavity-nesting species.	oposedly cause in cies if large snag ensity of snags in her, the DEIS removed, and	1-10
measures (Cha with the Fores	The FEIS does not claim that snags cause ecological damage. In fact, Chapter emphasizes that snags are created as a result prescribed fire. In addition, the resouter 2) specify the priority for retention of large snags and logs (greater than 20" to Plan for wildlife habitat., Fuels/Vegetation and Wildlife resource protection meaning retention to meet both fuel and wildlife objectives. See response to 1-11.	urce protection dbh) in keeping	

E-24 Appendix E

Subject Comment and Response	Commenter-Comment#	#
The Sierra Nevada Forest Plan Amendment recommends maintaining at least 3 large (ginches in diameter) snags per acre in eastern Sierra Nevada forest types, and recomme large snags per acre in other forest types, in order to provide minimum habitat needs for species (USDA 2004, AR9409 [SNFPA 2004 Record of Decision, p. 51])There is curl deficiency of large snags in California's forests, with less than 2 large snags per acre prevery region, including the Sierra Nevada, according to a comprehensive analysis cond Service scientists in a recently-released report (Christensen et al. 2008). In ponderosa pas those that dominate the project area, the large snag deficit is even greater, with only currently (Christensen et al. 2008). This report also warned about the threat posed to the health of California's forests by this large snag deficiency, pointing out that current level sufficient to support populations of numerous wildlife species (Christensen et al. 2008).	ends retaining 4-6 rently a pervasive esently existing in ucted by Forest bine forests, such 0.6 per acre e ecological s may not be	1
Response: It is not a purpose of this project to create snag habitat where it does not curre project would retain snags to a level compliant with the Sierra Nevada Forest Plan Amendment 6). The ponderosa pine forests which the commenter suggests dominate the project area is not a the majority of the analysis area consists of mixed conifer and Jeffrey pine types (Chapter 3, Exi Forest Vegetation). Although the Christensen et al. (2008) assessment showed snags as one limit certain vegetation types it does not address wildlife habitat management prescriptions.	(See response to 1- pplicable because sting Conditions ring component in	
The DEIS acknowledges that some additional snag recruitment would be made possible current stands to mature further. The DEIS also implies that planned thinning in the profurther reduce future large snag densities across the several thousand acres that would reducing competition. The DEIS does not analyze or attempt to estimate the extent of the decline in large snags as a result of the project. Nor does the DEIS analyze the adverse further reducing future large snag densities—which are already critically low in California populations of native wildlife species that depend upon ample large snag densities, or a how further reductions in large snags would advance the project's stated goal of improvements.	ject area will be logged, by ne likely future e impacts of a's forests—on ttempt to explain	2
<u>Response:</u> The Terrestrial Wildlife effects analysis (Chapter 3) takes into account the character (i.e. snags) resulting from the implementation of Alternatives 2 and 3. Fuel reduction be the largest trees, both live and snags, is expected to retain a sufficient number of snags to provide and to reduce the risk for high intensity crown fire in the Wildland Urban Intermix. Reducing over conditions would not eliminate all tree mortality, an objective for a healthy forest is to reduce example allow pathogens and insects to operate at an endemic rather than epidemic level, as explain Forest Vegetation.	y thinning to retain e wildlife habitat ercrowded cessive mortality	
Soils		
Pg. 2-21 Sixth bullet, sub-bullets 3, 4, 5. As stated in comment 2-21, please describe "si conditions. Sub-bullets 3 and 4 set a standard; sub-bullet 5 giving field staff discretion to snow conditions other than those described in sub-bullets 3 and 4 makes those standard."	make a call on	7
<u>Response:</u> Suitable over-snow conditions have been clarified to address this concern about the watershed resource protection measures in Chapter 2.	ut sub-bullet 5, in	
Pg. 2-21 Fifth bullet. Please define "moist soil" in terms of water content. Moist soils are susceptible to compaction.		;
Response: Moist soil is defined in the table in Appendix D. This table is based on water of texture.	ontent and soil	

Subject	Comment and Response	Commenter-Com	
(CTL) equipr	et bullet. The use of mechanized equipment has only been demonstrated we ment. All other ground based methods will need further review. Please revidentify CTL systems in stream environment zones (SEZs).		3-4
	We expect implementation of this project to take several years. During that ti system is reviewed and found suitable, it could then be used in SEZs. Until such would be the only ground-based system used in SEZs.		
Pg. 2-21 Fou	orth bullet. Please describe what snow conditions are considered "suitable"	for over snow	3-5
<u>Response:</u> measures and	Suitable conditions are described in Chapter 2, Soil, water and riparian resolutransportation resource protection measures, and they are discussed further in C		
Timber			
does not cite ponderosa a pine showing FVS outputs DEIS uses the otherwise of incorrectly use	es a scientifically-inaccurate SDI-Max. The EA uses 410 as the Jeffrey pine to any scientific study to support this. Oliver (1995) specifically identifies S is being a much higher value than 410, and includes figures for northern Care stands reaching SDI values of 571, which is SDI-Max. In fact, the Forest routinely identify SDI-Max for both ponderosa and Jeffrey pine as 571 in Chais erroneously-low SDI-Max value of 410 to justify removing far more trees cur. This misrepresentation of SDI-Max is greatly exacerbated by the fact ses 410 as the SDI-Max for mixed-conifer, white fir, and red fir stands, desing that SDI-Max for white and red fir is about 750-800.	SDI-Max for alifornia ponderosa Service's own california. The s than would that the DEIS	1-4
Nevada Provi Landscape As objective of the pine in the spe was the Jeffre in the South S into the stand. Vegetation, E.	Jeffrey pine and ponderosa pine have different maximum SDI values as do all er's max SDI of 571 for Jeffrey pine is a general value determined for the West Slower (eco-region) and is not specific to the drier conditions of the Lake Tahoe Basis sessment, 2004, was referenced for determining a local value of 410 as a max SDI eproject, found in Chapter 2, purpose and need, is to increase the proportion of secies composition of these stands. Therefore, the max SDI value used for most mix by pine SDI for the desired species composition, not the current conditions. Most not the project units are only considered so now because of the high amount of white stands to lack of fire and past above average precipitation, as explained in Chapter wisting Condition stand composition, structure, and density. The max SDI used for project was 750. Research from Long (1995) and Fettig et al. (2007) was also used	pe of the Sierra n. The South Shore I for Jeffery pine. An leffery and sugar ed conifer stands nixed conifer stands e fir that has grown r 3, Forest r red fir stands and	
allow the Forclaimed SDI- effectively actives lower-	aims that 12" and 16" DBH alternatives can't be fully considered because the test Service to reduce basal area to 100-150 square feet per acre or achieved. The primary goal of the project is to reduce potential fire severity, and this with a 12" or 16" dbh limitSo, the only justification for refusing to intensity alternatives is the arbitrary goal of reducing stands to 150 square and 40% of SDI-Max.	ve 40% of the and that goal can be fully consider	1-5
for considerat	As stated in the Proposed Action section of Chapter 1 of the FEIS, the goal is alth. There is no primary goal of only reducing potential fire severity. This alternation, but because the goal is two-fold, the 12" and 16" DBH alternatives would not ective and were therefore not considered in any further detail. Please see Chapte at Eliminated from Detailed Study.	ative was analyzed t meet the project	

E-26 Appendix E

Subject Comment and Response Comment#

The DEIS fails to identify scientific studies, or other hard data, to justify the basal area target of 100-150 square feet per acre or the SDI target of 40% of SDI-Max. Instead, the DEIS simply makes vague qualitative statements about competition, beetles, and future tree mortality. The DEIS claims, as a central purpose, to seek to advance "forest health", but the DEIS does not explain how reducing forest density, with the goal of further reducing future large snag densities, will advance the ecological health of the forest.... The DEIS fails to identify the hard data underlying the target thresholds, and fails to identify the methodology used to reach these thresholds. As a result, the DEIS violates NEPA.

<u>Response:</u> The FEIS has been expanded to include scientific justification of SDI and Basal area targets for forest health (See Chapter 2 Treatment Prescriptions). The target of 40% max SDI and corresponding basal areas are discussed in Chapter 3, under Forest Vegetation Existing Conditions; data from stand exams is summarized, modeling analysis is described, and literature citations are given to disclose methodology and data used. As stated in Chapter 2, resource protection measures for Focal Wildlife Species (WL-8), snag densities would meet SNFPA guidelines where they currently exist. The objective of the project, as stated in Chapter 1, purpose and need, is to reduce fuels and increase forest health. There is no goal or objective to reduce future or existing large snags below the SNFPA guidelines.

Response to Comments

1-7

Comment and Response Commenter-Comment# Subject In the FEIS, please describe in detail each of the following for all of the final alternatives (including 1-14 figures) IN EACH PROPOSED TIMBER SALE UNIT: a) the existing density of trees, both live and dead, in each size class (in two-inch dbh increments); b) the existing species composition of trees in each size class; c) the existing range of variability in density and species composition across the project area; d) your expected post-logging density of trees (trees per acre and basal area) in each size class; e) your expected post-logging composition of trees in each size class; your post-logging expected range of variability in density and composition; f) the current and expected post-logging canopy cover in each unit; and g) current and post-logging SDI in each unit. Without this information, it is impossible to evaluate the scientific accuracy and integrity of the analysis, or to understand the extent and intensity of canopy reduction and the resulting impacts to the habitat of spotted owls and MIS and SAR species. Stand specific data was collected (including all the information mentioned above) and used to determine effects for all resource areas including wildlife habitat. This information is located in the project record, and too extensive in detail and size to be incorporated into the FEIS. Calculated averages are located in Chapter 3, Section B. - Forest Vegetation. Chapter 2, Treatment Prescriptions describe the desired treatment outcomes. 1-26 The DEIS states that several distinctly different fire/fuel actions will occur, including mechanical thinning of merchantable sawtimber (the DEIS seems to suggest that these are generally trees over 14 inches in diameter), hand-thinning of smaller, submerchantable trees, piling/burning of slash, and prescribed burning. However, the DEIS fails to divulge when these activities would occur, whether the timber sale contractor would be required to thin small trees in addition to merchantable trees, whether the timber sale contractor would be required to pile and burn the slash, and what the potential adverse impacts might be on nearby homes if: a) a fire occurs between mechanical thinning of merchantable trees and thinning of

Response: The purpose of the South Shore project is not for economic gain; see the economic analysis in Chapter 3. Thinning of all size class trees within mechanical treatments would be done through a variety of contract methods that result with all thinning treatments performed within the same entry. All treatments would be done in order to meet the desired conditions and objectives. The South Shore project is designed to decrease fuel loads, both surface fuels and ladder fuels, and restore forest health; see purpose and need, Chapter 1. The effects of hand thinning are discussed in Chapter 3 – Direct and Indirect Environmental Consequences. With hand thinning, surface fuel loads are increased temporarily until the piles are burned. After pile burning, however, the fuel loads are significantly reduced. The thinning treatments have been proven to be effective within the LTBMU, specifically, and discussed in "Effects of Fuel Treatments on Fire Severity in an Area of Wildland-urban Interface, Angora Fire, Lake Tahoe Basin, California" (Safford et al. 2009). The analysis is based on the predicted outcome when the project is completed. We are not required to analyze worst case scenarios for each intermediate step of the project especially for unpredictable events. Funding of all fuel treatment elements (mechanical and hand thinning, mastication, piling, and pile burning) has been secured for this project through approved implementation project proposals for the South Shore Project through the Southern Nevada Public Lands Management Act. Although allowable burn days within El Dorado County may be limited, we do not anticipate that the number of available burn days will prohibit the burning proposed in this project.

small trees; b) a fire occurs between thinning of small trees and slash piling; c) a fire occurs between slash piling and slash burning; and/or d) a fire occurs between burning of slash piles and prescribed burning. The DEIS does not divulge whether the thinning of small trees (less than 14 inches in diameter), the slash piling, slash burning, and prescribed fire would be done as distinctly separate stages in the project's implementation and, if so, whether the funding for such activities is guaranteed and whether the air boards will allow all of the burning that will be necessary to reduce the logging-created slash even if

funds are available.

E-28 Appendix E

Comment and Response Commenter-Comment# Subject 1-28 ...not only does the existing scientific literature state that SDI-Max for a given stand should be based upon the proportional representation of the tree species in the stand (Shaw 2006), but also that the Forest Service's own FVS Handbook states that SDI-Max should be determined this way as well. If the Forest Service uses the correct SDI-Max value of 571 for Jeffrey pine..., and uses proportional representation of tree species to determine the SDI-Max value for a given stand, then the actual SDI-Max values for the current condition will be much higher than reported by the DEIS, there would be far fewer stands over 60% of SDI-Max, and a 12|| or 16|| dbh alternative would result in post-thin SDI values that are much lower proportions of SDI-Max than assumed by the DEIS. In other words, if the Forest Service refrains from fabricating data with regard to SDI and SDI-Max, there is no justification to remove anywhere near the number or size of trees the DEIS proposes to remove—even if we were willing to accept as valid the constraints imposed by the 2004 letter from the Regional Forester (which we are not). The SDI-max was based on a Jeffrey pine SDI value as a desired primary species. This is consistent with the methods described in Shaw (2006). The SDI-max used in this project is based on the species mix of the post treated or desired stand structure, not the current or pre treated stand structure. Most mixed conifer stands in the South Shore project units are only considered so now because of the high amount of white fir that has grown into the stands, as explained in Chapter 3, Forest Vegetation, Existing Condition stand composition, structure, and density. In stands that currently have a mix of species, but are desired to be Jeffrey pine dominated stands, using a proportional representation of the existing tree species would result in a failure to obtain a desirable and sustainable stand structure. See Chapter 3, Forest Vegetation, existing condition, stand composition, structure and density for a discussion of existing and desired conditions. A lower diameter alternative was analyzed for consideration, but it did not meet the purpose and need, especially for forest health, (see Chapter 2, Alternatives Considered but Eliminated from Detailed Study). 12-11 The effects chapter has no mention of bole damage. The agency proposes thousands of acres of cut to length logging, ground skidding, mastication, all done with large steel machines and there is no bole damage? Mechanical damage of this type is completely different from scars caused by heat injury and much more likely to be infection courts for fungi. How will you mitigate? Some level of bole damage is anticipated through the thinning of trees from mechanized harvest systems. From contract inspections on similar fuels reduction/forest health projects where mechanized harvest systems have been used on similar stand conditions to those found within the South Shore Project area, bole damage was confined to less than 5% of the remaining trees. This level of damage is considered minimal. All mechanical thin contracts would include provisions for Control of Operations, Suspension of Operations, and Contract Breach, which require the contractor to minimize damage to trees. **Transportation** 13-36. Roads can act as barriers to migration, lead to water temperature changes, and alter streamflow regimes. 14-36, Improper culvert placement where roads and streams cross can limit or eliminate fish passage. 15-36. 16-36 When roads are poorly located and/or culverts are improperly sized or placed this comment is accurate. Two such existing crossings that are altering streamflow regimes and are barriers to fish passage within the South Shore project would be replaced with crossings designed to permit unobstructed streamflow and fish passage. The Transportation and Access (Roads) section in Chapter 2 discusses these crossings and the BMPs and

construction methods to prevent these negative environmental effects. Chapter 3 discloses that the effects are expected to be minimized with implementation of the resource protection measures and BMPs for road construction, reconstruction, and use. Please refer to the following sections in Chapter 3 for the discussion of effects: Water

and Riparian Resources, Aquatic Wildlife, and Transportation and Access.

Response to Comments

Subject	Comment and Response	Commenter-Com	
Responses roads for the S movement is lo in the DEIS/D Resource sects	y increase the frequency of landslides, debris flow, and other mass movem: When roads are poorly located, especially on steep slopes, this comment is consoluted Shore project are on gentle slopes, and where risk of landslides, debris flows ow. Information on geologic hazards was available for transportation planning, be EIR. For the FEIS, further discussion to clarify geologic hazards has been included ion of Chapter 3 is updated to include Geology of the FEIS to clarify expected geology roads locations were verified on the ground to minimize the risk of impact from the ground to minimize the risk of impact from the ground to minimize the risk of impact from the ground to minimize the risk of impact from the ground to minimize the risk of impact from the ground to minimize the risk of impact from the ground to minimize the risk of impact from the ground to minimize the risk of impact from the ground to minimize the risk of impact from the ground to minimize the risk of impact from the ground to minimize the risk of impact from the ground to minimize the risk of impact from the ground to minimize the risk of impact from the ground to minimize the risk of impact from the ground to minimize the risk of impact from the ground to minimize the risk of impact from the ground to minimize the risk of impact from the ground to minimize the risk of impact from the ground to minimize the risk of the ground to minimize the risk of the ground to minimize the risk of the ground to minimize the ground to mi	rect. However, s, or other mass ut was not included ed, and the Soils logic environmental	13-34, 14-34, 15-34, 16-34
Vegetation			
ecosystems hard look at to composition	hore DEIS relies on stand averages across the project area which contains with variable stand density metrics. The environmental impacts discussion the specific density issues related to various forest types, topographic posit on a unit by unit basis, thereby generalizing the forest conditions into a brosstand condition, post-treatment.	fails to take a ion and specific	13-30, 14-30, 15-30, 16-30
information w stand specific aquatics) so th	The South Shore Project did not rely on stand averages across the project area he analysis to display general comparisons between alternatives and effects. Stand as collected on this project and each stand was analyzed using the specific data from analysis was also the point of reference for all the other resource areas (e.g., wild not not effects determination were based on stand averages, but on stand specific in thich was summarized for the EIS. This is explained in the effects discussions in Charles.	d specific om that stand. The life, hydrology, formation on over	
Forest Densi provide accu	hore DEIS/DEIR's stand density discussion is not consistent with Regional ty Management for Multiple Objectives July 14, 2004) nor does the stand d rate, scientific information on the breadth of issues surrounding stand densealth in the Lake Tahoe Basin in violation of NEPA 40 CFR § 1500.1.	ensity discussion	13-29, 14-29, 15-29, 16-29
obtaining desi ensure that sta normal basal a maximum stan It only implies Project has be after thinning, varying object habitat requir	for Multiple Objectives. Regional policy addresses the need to provide an integratived conditions on a landscape. This policy also states that an objective when designed density does not exceed an upper limit of a maximum stand density system, such area or stand density index. The letter states "for example: 90% of normal basal and density index." This does not mean that all thinning needs to be designed to this is that thinning should be designed so that a density threshold is not exceeded. The even designed to thin stands to a level that will remain below a density threshold for . The South Shore Project has also been designed to vary the level of thinning whe tives, such as wildlife habitat needs that may need to retain higher levels of stand a stive-specific basis, as discussed in Chapter 3, Forest Vegetation section, and	ed approach for gning thinning is to h as percent of trea, or 60% of example provided. South Shore at least 20 years are needed to meet lensity to meet rovide a diversity of	

E-30 Appendix E

Subject Comment and Response	Commenter-Comment#
Water Quality, Riparian	
The project places almost exclusive focus on fire risk without similarly acknowledging the environments that will be affected by the fuel reduction activities The Existing Situation DEIS/DEIR (pg. ii) is based entirely on Fire, Recreation and Scenic, as if these are the concern. However, a key value at risk from this and other fuel reduction projects are the the Lake itself. Indeed, the current 1988 Land and Resource Management Plan, Lake Management Unit, states in the section titled Management Practices and Forestwide S Guidelines, General Management, —In resolving conflicts, the following list of resource order of priority and will normally apply: Highest priority will be given to the protection of the enhancement of the clarity of water in Lake Tahoe."(pg. IV18)."We request that describe how the 2004 Framework standards apply to the Lake Tahoe basin specificall ONRW designation, or, why the general standards of the 2004 document are not altered designation. If not, the agencies should explain why standards for other regions are go ONRW.	ion section in the only elements of e water quality of Tahoe Basin tandards and es or uses are in of water quality and the Final EIR/EIS y in terms of the ed to fit the ONRW
Response: Water quality is discussed extensively in Chapter 3, primarily in the Water and Resources section, and also in the Aquatic Wildlife section. The project resource protection in (Appendix B) provide protection for Tahoe Basin water bodies and watersheds, as disclosed in indirect, and cumulative effects for the action alternatives. Resource protection measures found Soil, Water and Riparian resources, and Aquatic Resources are site-specific to the South Shore incorporates SNFPA (framework) direction and additional project-specific measures to protect streams, lakes, and Lake Tahoe. The Existing Situation section of the Executive Summary is one of some of the highlights in the FEIS. It is not meant to represent every aspect of the complete in the security of the complete in the security is an action of the highlights in the FEIS.	neasures and BMPs Chapter 3, direct, I in Chapter 2 for project area t the tributary ly a brief summary
We recommend implementation of rigorous project-specific monitoring, including photo and after the project is implemented. Such monitoring should be sufficient to show whe provided bank stability were removed, particularly in and on stream banks, and to show trails and deep ruts in floodplains/SEZs where mechanized thinning took place. Pre- ar photo monitoring should also reveal the changes to shading conditions in streams and as well as burn pile location, size, density, and post-burn project completion to show th restoration of vegetation, bank stability, and general pre-project conditions. TheFEIS provide additional data to support the conclusion that mechanical thinning and pile burn not result in adverse soil, sedimentation, erosion or water quality effects.	ere large trees that or resulting skid and post-project along their banks, e rate of should also
Response: The South Shore Project describes monitoring in Chapter 4. Monitoring elem concerns include SEZ pile burn monitoring with an adaptive management component, implement and the BMPEP. Results of monitoring from past projects using mechanical applications in State FEIS under Chapter 3, Water and Riparian Resources (Heavenly SEZ and Roundhill SEZ mater The monitoring results support the conclusion that mechanical thinning as proposed in this properties in significant adverse soil, sedimentation, erosion or water quality effects. In addition, the FEIS stream shade and temperature monitoring program to determine the degree, if any of impacts. In monitoring elements specific to assessing bank stability, and rutting in floodplains, there are protection measures described in Chapter 2 under Soil Water and Riparian, Aquatic Resources bank stability, large wood, soil moisture in SEZ, and pile burning in SEZs.	ntation monitoring, EZs are included in conitoring reports). ject does not result incorporates a Although there are e specific resource

Subject Comment and Response	Commenter-Comment#
We recommend that fuel hazard reduction and forest restoration projects in the Lake Ta subject to systematic monitoring and research, data collection, and analysis necessary to sediment and nutrient load contributions to Lake Tahoe. For instance, as has been under TMDL source categories, we recommend a concerted monitoring and modeling effort be LTBMU to characterize both the impacts of this project (and others like it) and the benefit implementing Best Management PracticesIdeally, the modeling should inform optimus BMPs for this project and future projects. At a minimum, modeling should provide estimated loads resulting from this project for 20 years, and could, therefore, be conducted during project implementation. Modeling should be used to evaluate the tradeoffs between impand requiring increased load reduction efforts from other forest management projects are source categories. Whatever model is used or developed should be capable of providing pollutant loading estimates to track TMDL implementation and inform future evaluations necessary, revisions to - the Lake Tahoe TMDL load allocations and Implementation Plantant Indicate the track TMDL indicates and Implementation Plantant Indicate the track TMDL load allocations and Implementation Plantant Indicates the track TMDL load allocations and Implementation Plantant Indicates the track TMDL load allocations and Implementation Plantant Indicates the track TMDL load allocations and Implementation Plantant Indicates the track TMDL load allocations and Implementation Plantant Indicates the track TMDL load allocations and Implementation Plantant Indicates the track TMDL load allocations and Implementation Plantant Indicates the track TMDL load allocations and Implementation Plantant Indicates the track TMDL load allocations and Implementation Plantant Indicates the track TMDL load allocations and Implementation Plantant Indicates the track TMDL load allocations and Implementation Plantant Indicates the track TMDL load allocations and Implementation Indicates	to estimate fine ertaken for other e undertaken by iits of um deployment of ates of pollutant or following ulementing BMPs and/or TMDL g clarity-reducing of - and, if
<u>Response:</u> The LTBMU has prescribed monitoring based on the level of risk for this proje Chapter 4. The monitoring includes an adaptive management component; management activitie based on monitoring results. In response to comments, Chapter 4 has updated criteria for BMPI including several project specific BMPEP evaluations.	s may be adjusted
The FEIS should provide the rationale and criteria used to create theprimary triggers instance, describe the applicable water quality requirements and objectives to be achieved used to determine if these requirements and objectives are met or not, and how remediate will be selected and implemented. We recommend the FEIS include specific data demonstrated primary triggers, design features, and project-specific, as well as ambient, monitor requirements, are sufficiently protective - in combination with the anticipated fuels reduce management activities over the next 20 years - to ensure LTBMU meets the projected reduction in sediment loads from their lands, pursuant to the forthcoming Lake Tah	ved, the method al design features nstrating that the oring stion and forest equirement for a
<u>Response:</u> Based on this comment, other public comments, and further collaboration between Lahontan Water Board we refined our monitoring approach. Rather than using the triggers described other criteria such as the relative potential risk for impacts, were used to select sites for addition monitoring (See Chapter 4). The monitoring proposed for this project is designed to indicate who protection measures and BMPs are sufficiently protective. This project is not required to meet an reduction goal.	cribed in the DEIS, nal BMPEP ether resource

E-32 Appendix E

Subject Comment and Response	Commenter-Comme	ent#
We recommend that the most affected watersheds, such as those already over the TOC in risk ratio, trigger a more detailed analysis and identification of BMPs to maintain exist loads. For example, consider implementation of the TMDL Pollutant Reduction Opportur "Full BMPs" in addition to implementing the design features described in Chapter 2. Full tilling, mulching and construction waterbars on all skid trails; and obliterating/recontourir and temporary roads. The PRO Report states "this level of post-treatment BMPs is inter hydrologic function in disturbed areas to levels that are equivalent or higher than undisturbed conditions." These forest management BMP definitions were used in the TMDL's Forest Source Category Group analyses and developed in close coordination with the LTBMU.	ing sediment hity (PRO) Report BMPs include hgall landing hded to restore urbed soil	2-5
Response: The CWE analysis identification of watersheds over the TOC did trigger additional project adjustments, such as changing some WT acres to CTL and some CTL acres to hand treat. Alternative 3. However, based on the analysis of potential impacts for this project, the "full BMF described in the PRO report) would not be necessary to restore hydrologic function after South Stactivities. Chapter 2, contains decommissioning resource protections measures for temporary rowincluding mulching (chips or masticated material) waterbar construction, ripping, revegetation, measures. The regional BMPs and the resource protections measures developed for this project protect soil and water quality and mitigate for any effects that treatments might have on these resources.	ment described in " approach (as Shore project ads and landings, and other would adequately sources, see	
Areas within the Angora Fire boundary are of special concern due to the fact that in mar no vegetation or ground cover to act as a buffer. Without such cover, distance from street does not constitute a buffer. How are water quality buffers being addressed in areas who vegetation and ground cover does not exist? Response: This project does not include severely burned areas within the Angora Fire are were removed from the project after the fire, and are being addressed in the Angora Fire Restore. Based on field evaluations after the Angora Fire, approximately 300 acres within the Angora Fire remained in a condition with surface and ladder fuels needing treatment to attain desired conditions to the South Share president.	am course alone ere adequate ea. Those areas ation Project. re perimeter	3-9
were kept in the South Shore project. Throughout the document it is stated that ground based equipment will not operate with perennial and intermittent streams. A 25 foot buffer for perennial streams is not sufficient quality, especially run off of fine sediment, and seems to be a large departure from the L used on the Quail Project which specifies a minimum setback for mechanical equipment summer operating period of 100 feet. Even California Forest Practice Rules require 50 to (depending on slope) for Class I and Class II stream courses. TRPA would like to discuss further to resolve concerns over water quality impacts, specifically on perennial streams	t to protect water TBMU BMP 28 during the 150 foot buffers st this issue	3-8
Response: In response to this comment, we have updated the resource protection measure provide additional protection for perennial streams in whole tree treatment units based on slope The 25 ft buffer for CTL units that are found to be less than or equally sensitive to the HSEZ prodetermined by the sensitivity rating system, Appendix C). has already been agreed to by the TRP. LTBMU staff based on the favorable monitoring results and lack of impacts associated with the that same buffer. This buffer was also found to provide adequate protection for CTL treatments in Project.	and ground cover. iect site (as A, LWB and HSEZ project using	
Pg. 2-19 Water and Riparian design features Fifth bullet: —except at temporary or pe (BMP#1-19),was the word "crossing" left out of this sentence?	rmanent stream	3-3
Response: Yes. Thank you, this has been corrected for the FEIS.		

Subject	Comment and Response	Commenter-Com	nment#
based on the	like to see continued refinement of the SEZ Rating System. This refinement results of monitoring its use during this project. TRPA fully expects the userove over time and that USFS staff will be engaged in monitoring project references.	e of this rating	3-10
revised version refinements in	We agree. Some minor changes to the rating system have already been made ith using the system for South Shore SEZs and other LTBMU vegetation managem to of this rating system is included as Appendix C of the FEIS. We expect to propose the future and expect to engage TRPA and Lahontan Water Board in discussions. Monitoring for results of the South Shore project is found in Chapter 4.	ent projects. The e further	
	nore Project does not provide adequate mitigation through monitoring and to avoid or substantially lessen potentially significant impacts to water qual uses.		13-17, 14-17, 15-17, 16-17
comments and resource prote	Clarification and additional details for resource protection measures (mitigate ments, including adaptive management, have been incorporated in the FEIS in reas a result of coordination between LTBMU, TRPA, and Lahontan Water Board section measures, BMPs and monitoring elements are expected to prevent significant meficial uses, which is supported by the analysis included in the FEIS. See Chapte	sponse to public staff. The project nt effects to water	
	nore Project does not include any instream monitoring component to ensur BMP implementation are avoiding impacts to water quality.	e that design	13-22, 14-22, 15-22,
previous moni seasonally, an Because fuel r difficult to det ongoing activi (see Chapter 4 erosion and se	In stream water quality monitoring has been attempted by the LTBMU in the parge scale fuel reduction activities (see LTBMU website archive of monitoring reptoring efforts were inconclusive due to the large variability in water quality paramed annually, and the difficulty with identifying a change outside of that background eduction activities are generally distributed geographically and over time (as with ect and distinguish any changes in water quality resulting from these types of activities. The proposed monitoring for this project includes utilizing the E09 and E14 is to evaluate the implementation and effectiveness of the stream crossing replaced dimentation increases are not occurring. The results of these evaluations will proto water quality.	ports). The results of meters daily, l variability. In this project), it is wities from other BMPEP protocols ments to ensure that	16-22
	nore Project does not contain any adaptive management that would ensure apacts to water quality or beneficial uses will be avoided.	e that significant	13-23, 14-23, 15-23,
<u>Response:</u> based on moni	Additional language about adaptive management, and how project component toring results, has been added to Chapter 4.	ts may be adjusted	16-23

E-34 Appendix E

Subject Comment and Response	Commenter-Com	
Monitoring for impacts to beneficial uses is inadequatethe South Shore Project has the potential adverse effects on Beneficial Uses listed in the Basin Plan, including impacts to riparian habitat. numerous BMPs and design details intended to avoid such impacts. See e.g., DEIS/DEIR, Apper However, there is no monitoring required to ensure that these BMPs/features are adequate to avo Beneficial Uses.	The Project lists dices C-D.	13-21, 14-21, 15-21, 16-21
Response: Chapter 3 of the FEIS (Water and Riparian Resources) describes how project at the potential effects to beneficial uses to less than significant. The required monitoring which incomplementation, effectiveness, and forensic monitoring detailed in Chapter 4 will indicate whether resource protection measures are implemented and working as prescribed, thereby indicating who uses are protected. The BMPEP (as described in Chapter 4) was developed specifically for the prelated beneficial uses from non-point source contaminants. The BMPs and resource protection primarily acting as source control, preventing impacts from occurring, rather than as treatment incurred. Furthermore, the FEIS acknowledges the importance of stream temperature for sustain communities and incorporates stream shade and temperature elements as required monitoring to impact, if any.	ludes er BMPs and nether beneficial rotection of water measures are of impacts already ning aquatic biotic	
Positive results on a single test project does not ensure that all similarly situated project adverse impacts to water quality. The DEIS/DEIR in places suggests that certain types on not have significant adverse effects to water quality based on staff review. See e.g., DEI (stating that South Shore SEZ stands that exhibit equal or less sensitivity than the Heav SEZ demonstration project (HSEZ) site based on the sensitivity rating system (Appendix treated with ground based equipment under operable soil moisture conditions.)	of activities will S/DEIR (p. 2-19) enly Valley Creek	13-20, 14-20, 15-20, 16-20
Response: The Heavenly Valley Creek demonstration project was specifically designed to environmental effects for other areas. In addition, since the release of the DEIS/DEIS, another so monitoring effort was completed by the LTBMU in an SEZ unit in the Roundhill Fuels Reduction Monitoring Report that resulted from the Roundhill Project soil quality monitoring has been inclin the Chapter 3 Water and Riparian Resources effects analysis for the FEIS. The results from be significant adverse impacts to soil or water resources. The determination of SEZ sensitivity to m treatments, and the comparison of that sensitivity to the HSEZ site, was made based on a rating sclose collaboration with TRPA and Lahontan Water Board, specifically for the South Shore projects have been documented, along with the rationale for each rating. In addition, implemental and forensic monitoring would be used (as described in Chapter 4) to validate that use of this rational adequate to protect SEZs and surface water features from mechanical treatment impacts.	oil quality Project Area. The uded by reference oth studies show no echanical system developed in ect. The rating ion, effectiveness,	
Monitoring based solely on TOC values does not ensure that water quality impacts will be discussed, the Project will require BMP forensic and effectiveness monitoring for only 3 watersheds draining to the Basin, yet activities planned for the 15 watersheds clearly possible contributing sediment and nutrient discharge to the Lake.	out of 18	13-19, 14-19, 15-19, 16-19
<u>Response:</u> Based on comments and further collaboration between the LTBMU and Lahon we refined our monitoring approach. Rather than using the triggers described in the DEIS, othe the relative potential risk for impacts, were used to select sites for additional BMPEP monitoring The monitoring proposed for this project is designed to indicate whether resource protection med are sufficiently protective in all project watersheds.	r criteria such as g (See Chapter 4).	
The project does not adequately describe how water quality will be regulated in this project appears to leave out discussion of a critical variable, which is how water quality occur in the future years of this project, and how, or even whether, there will be any regulated for the Forest Service's activities.	regulation will	13-18, 14-18, 15-18, 16-18
<u>Response:</u> The Lahontan Water Board and the TRPA will provide the regulatory oversigh this project appropriate to their authorities as described in Chapter 1, Permits, and Coordination		

Subject Comment and Response	Commenter-Com	ment#
At this time, both Lahontan and TRPA are committed to achieving Basin Plan water questive the Lake through the adoption of Total Maximum Daily Loads ("TMDLs"). However, Later TMDL process assumes a particular load allocation for timber and other vegetation may activitie that does not assess the potential load increases that will be caused by the 6 projects on approximately 68,000 acres over the next 10 years. Further, the current T assume a level of protection to water quality from vegetation management activities the conditions set forth in the 2007 Waiver. However, the proposed project eliminates the including those for monitoring and protection of sensitive habitats. Thus, the current as which Lahontan and TRPA are proceeding as to how TMDLs will lead to the achievem objectives are no longer valid.	ahontan's current inagement ,000 fuel reduction MDL documents at is based on the se conditions, issumptions on	13-5, 14-5, 15-5, 16-5
<u>Response:</u> The project as proposed, including the resource protection measures and mo adequately protects sensitive habitats as described in Chapter 3, Environmental Consequences to construct the TMDL and the conditions included in the 2007 Timber Waiver (the 2007 Timber superseded by the 2009 Timber Waiver) are outside the scope of this project. The South Shore "eliminate" the conditions of the Timber Waiver.	. The modeling used er Waiver has been	
Another serious adverse impact of forest harvesting and fuel reduction activities is the increase nutrient inputs to aquatic systems (i.e., nitrogen loading), which can have an surface water quality and biotic response (Hazlett, et al., 2006). Hazlett also observed nitrogen movement from terrestrial portions of a watershed in boreal forests of northea surface waters that occurred several years after the forest harvesting/management activities.	eventual impact on increases in stern Ontario into	13-14, 14-14, 15-14, 16-14
<u>Response:</u> Publications by Hazlett et al. specifically look at nutrient loading in boreal factories been clearcut or other overstory removal/regeneration objective applied to them. In those as nitrogen become abundant in high amounts. However, in stark contrast, selective forest thin which will be implemented in South Shore project generally retain larger trees, as well as a midesired tree species. Retained trees would then be available to use such nutrients in the post-that addition to other shrub species that tend to come in after such ground disturbance. The benthic stream systems are also utilizing nutrients in the form of natural detritus inputs (organic mattenedles, etc.). Any increases in organic material may increase a portion of the aquatic inverted assemblage, such as collector-gathers and/or shredders and are an important foraging base to al. 2005 observed that selective harvest coupled with similar BMPs and other resource protect resulted in no harmful alterations to stream habitat and aquatic insect communities.	cases, nutrients such ning prescriptions x of smaller diameter tinned condition in communities in r, such as leaves, rate species fish. Kreutzweiser et	

E-36 Appendix E

Comment and Response Commenter-Comment# Subject 13-13. The South Shore Projects discusses using "lighter" ground based equipment in stream zones as a means 14-13, to avoid environmental impacts. In the past, Lahontan has defended the use of mechanical equipment in 15-13, stream zones up to 10 pounds per square inch (psi) on granitic soils and 13 psi on non-granitic soils. In 16-13 my opinion, even the use of lighter vehicles has the potential for significant impacts.... The focus on psi is similar to the approach taken by the South Shore Project on monitoring, which focuses the concern on the relative impermeability of the soil.soil impermeability is only one factor to consider in whether fuel reduction activities has the potential to discharge sediment to streams. In my opinion, the most important focus is what the equipment is actually doing in the stream zone that could cause impacts. Too much emphasis is placed on potential changes in permeability rather than assessing all processes that could deliver sediment to the stream and route it to Lake Tahoe. Current research supports these findings that vegetation management activities have the potential for significant impacts to both water quality and SEZ habitat. For example, mechanical treatments in forests can produce negative ecosystem effects such as soil disturbance and compaction, disruption of nutrient cycling, damage to residual trees, and enhancement of root pathogens (Stephens and Moghaddas, 2005). We were unable to identify which Stephens and Moghaddas, 2005 paper the commenter is referring to, there are several. We agree that what the equipment is doing in the SEZ is of primary importance. For that reason, we have limited mechanized SEZ treatments to areas with equal or lower risk than the Heavenly SEZ Demonstration Project (Appendix C) and have a special section of resource protection measures to protect SEZs. These resource protection measures reduce the potential effects to SEZs and water quality to less than significant. Potential effects of soil disturbance and compaction are also discussed in the Geology and Soil Resource and Water and Riparian Resources sections of Chapter 3. 13-12. Collins also notes: It is common knowledge and well documented in the literature that ground-based 14-12, equipment in sensitive stream zone areas has the potential to cause erosion and sediment discharge. 15-12. This is why protected stream zones were created. The Project proposes two techniques here, whole tree 16-12 yarding and accompanying skidding of larger logs, and cut to length operations. Here, each of these activities has the potential for water quality impacts. For example, large vehicles may dislodge substantial amounts of soil and mechanically disturb cast areas of the subsurface soil structure, particularly near the banks of streams. When a vehicle such as a loader or forwarder pivots in the soil, it can create sources of sediment production. The skidding of logs – typically part of the whole tree logging operation – also has the potential to expose bare soil and create pathways for surface runoff to concentrate and erode the soil. When this happens within a stream zone, sediment is likely to be discharged into the stream during the next storm or runoff event. Limits on tire pressure that minimize soil compaction do not necessarily mean that there will not be sediment production and supply to the stream. Disturbed bare soils do not require compaction to generate sediment as indicated by studies from Booker et al (1993). Whole tree yarding and skidding of logs is not proposed in SEZs. As a result of interagency discussions and public comments, additional buffers for WT units were added to the FEIS to prevent sediment delivery to streams and other water bodies. The project proposes to use CTL systems only in selected SEZs with a risk rating equal to or less than the Heavenly SEZ Demonstration Project (Appendix C), in combination with resource protection measures and BMPS to provide water quality protection. The use of CTL systems in SEZs, as proposed in this project, have been successful in preventing sediment delivery to channels in both the HSEZ and Roundhill SEZ projects. See Chapter 2 resource protection measures for Soil, Water and Riparian resources, and see Appendix B for project BMPs.

Subject	Comment and Response	Commenter-Com	
management potential for p Declaration of logging active amounts of se decomposed grus. Following quite high from especially in of the hillside forensic mon	DEIS/DEIR states that discharges will be "minimized" by the implementation to practice and design features for the Project. The DEIS/DEIR's findings respond to collution discharge due to fuel reduction activities in sensitive areas is support Laurel Collins, which notes:working in the Sierra Nevada, I have obserties on steep slopes and within stream zones have the potential to discharge ediment. This is particularly true where heavy equipment is used, especially granitic bedrock and/or granitic soils that have abundant fine sediment, ofting fire, but even before the first rainfall, natural sediment supply rates into some dry ravelling of soil from the inner gorge of 3 stream canyons. Once rains areas that have hydrophobic soils, pervasive rill networks from [sic] occur des, providing a supply of fine surface soils to the stream network. Without efficioning, these natural geomorphic responses might be difficult to distinguishes in areas that are treated for post fire erosion control.	garding the orted by the ved that the ge substantial y in areas with en referred to as streams can be fall occurs, over vast portions fectiveness and	13-11, 14-11, 15-11, 16-11
Demonstration textured, with definition of gare being trea	Mechanized equipment would not be used on steep slopes. Use of mechanized would only take place in areas with an equal or lower risk rating than the Heavenly Project (Chapter 2 resource protection measures). Soils in the project area are glow percentages of fines (Chapter 3, Geology and Soil Resource section, Existing or states of the soils with abundant fine sediment. This project does not propose ted for post fire erosion control. Chapter 4 has been updated to clarify that it incluses monitoring.	y SEZ generally coarse Conditions). The e to treat areas that	
contribute su slopes and ir treatments w on the relativ by the new 2	ROR makes an assumption that relatively undisturbed forested upland area bstantially to overall sediment loading due to the existing restrictions on log a SEZsthe South Shore Project changes this calculation by allowing for rithout the forensic and effectiveness monitoring as previously required by Le environmental risk of the fuel reduction activity. These changes will be also 008 and 2009 Waivers that Lahontan has recently adopted for the Basin, who nonitoring previously required at high risk sites.	ging on steep nechanical ahontan based so exacerbated	13-7, 14-7, 15-7, 16-7
high stand der reduce impact addition, the S	As stated in the TMDL PRO report, the undeveloped forest lands in general artility, high infiltration rates, sustainable soil nutrient conditions, and severely oversusities. The South Shore project limits whole tree methods to the most accessible, res. No equipment use on steep slopes (greater than 30%) is proposed in the South Shore project would include both forensic and effectiveness monitoring as classessment of consistency with PRO Report conclusions is outside the scope of this and	stocked fuels with resilient areas to hore project. In arified in Ch. 4 of	
DEIS/DEIR, "The recomm for forest ma to the extent	ollutant Reduction Opportunity Report ("TMDL PROR") (2007) is referred to which incorrectly states the report recommendation regarding loading from nendation from the TMDL researchers is to maintain current practices employ nagement, including standard BMPs, and incorporate decommissioning roafeasible." (p. 3-99) The final recommendations included no such language to 2008) p.205-6.	timber activities. byed by the FS ads and landings	13-6, 14-6, 15-6, 16-6
	Since the release of the DEIS/DEIR, the Lake Tahoe TMDL has been finalized have been incorporated in place of the reference to the PROR for the FEIS. Refer turces section in Chapter 3 for more details.		

E-38 Appendix E

Subject Comment and Response	Commenter-Comment#
The Basin Plan requires protection of a number of beneficial uses, including 22 beneficial specifically identified in the 2007 waiver as potentially affected by timber activities and waincluding Preservation of Biological Habitats of Special Significance (BIOI), Cold Freshwa (COLD), Commercial and Sport fishing (COMM), Flood Peak Attenuation/Flood Water St Freshwater Replenishment (FRSH), Ground Water Recharge (GWR), Migration of Aquat (MIGR), Municipal and Domestic Supply (MUN), Rare, Threatened, or Endangered Spec Spawning, Reproduction, and Development (SPWN), Wildlife Habitat (WILD) and Water Enhancement (WQE). The 2007 Waiver noted that all of these beneficial uses could be a affected by timber activities including the fuel reduction activities proposed in the South States.	aiver conditions, ater Habitat corage (FLO), ic Organisms cies (RARE), Quality adversely
<u>Response:</u> Chapter 3 of the FEIS (Water and Riparian Resources) describes how project d the potential effects to beneficial uses to less than significant. The uses that have the highest risk f project are discussed in detail, and the resource protection measures and monitoring elements pri impacts are also described in Chapters 2 and 4 respectively.	for effects from this
The South Shore Project monitoring plan is inadequate to meet waiver requirements.	13-24, 14-24,
<u>Response:</u> Chapter 4 has been clarified and updated to address both public and agency conconsistency with the current Timber Waiver will be evaluated during the permitting process for the project eligible for enrollment in the Waiver.	nments. 15-24,
The DEIR/DEIS also does not provide an adequate discussion of the relevant environme regarding the current status of the Lake's impaired waters, and what must be done to resclarity. TRPA's 2006 Threshold Evaluation (TRPA, 2007), for example, showed only 25° threshold indicators were meeting threshold standards and water quality is one of the threategories that has not been successfully attained. The primary causes for the degradat quality are thought to be an increased flux of sediments and nutrients into the lake. Source and sediments have been identified including atmospheric deposition, stream loading, disground water, and shore zone erosion (Murphy and Knopp, 2000).	store water % of the eshold ion of water ces of nutrients
Response: Restoration of clarity to Lake Tahoe is outside the scope of this project. Protect quality is thoroughly considered in the analysis (Chapter 3, Water and Riparian Resources section extensive list of resource protection measures and BMPs (Chapter 2 and Appendix B) is provided potential effects to a less than significant level and to ensure that water quality is maintained. In a details improvements to three stream crossings that would reduce existing impacts, including ong sedimentation The environmental effects of improving these three stream crossings are disclosed Water and Riparian Resources section under stream channel conditions. Sediment decreases are end of the project due to installation of BMPs, along with closing and rehabilitation of roads and	n), and an to mitigate addition, Chapter 2 oing I in Chapter 3, anticipated by the

Subject	Comment and Response	Commenter-Com	ment#
The project of beneficial us CEQA and N 68,000 acres Jurisdictiona that have the waterbody for significant im requires the significant im	does not correctly analyze the cumulative impacts of this project to water ques in the Tahoe basin. The South Shore Project's analysis of cumulative im IEPA is inadequate for several reasons. The Project is part of a larger project scheduled to occur in the next decade. See USDA LTBMU 2007 (Lake Tall Fuel Reduction and Wildfire Prevention Strategy The Project permits a potential and will increase pollutant discharges into the Tahoe Basin, a 30 or sediment and nutrients. However, the DEIS/DEIR has not considered the spacts of this overall project as part of its cumulative impact analysis. In partlead agencies to adopt all feasible mitigation to avoid or substantially lesse spacts. Here, the DEIR/DEIS has not made this calculation because it has lative impacts will not be significant.	uality and upacts under ect covering whoe Basin Multi- upacts of activities 3(d) listed potentially ticular, CEQA upotentially	13-2, 14-2, 15-2, 16-2
Analysis Meth resources enc includes past, response to co within the Sou As described i	The rationale for the spatial and temporal scale of the cumulative effects analymetrical uses is described in Chapter 3 Water and Riparian Resources section underdology and Existing CWE Conditions sections. The analysis area boundary for wompasses the full extent of all watersheds that include treatment units. The cumula present, and reasonably foreseeable future management activities in conformance omments, the CWE analysis in the FEIS was revised to include other agency fuels rath Shore analysis area (Appendix A).	er the CWE cater and riparian tive effects analysis with NEPA. In ceduction projects	
The Lake Tah	ollutant discharges to Lake Tahoe. oe Basin Multi-Jurisdictional Fuel Reduction and Wildfire Prevention Strategy is r ify site-specific actions or consequences and was not included in the analysis.	not a project and	
sediment and Under both N constitute as that impacts features and being avoide	EIR (at p. 3-87) acknowledges that Lake Tahoe is a Section 303(d) listed wild nutrients, but does not incorporate this information into its cumulative implied and CEQA, additional incremental impacts to an already degraded wisignificant impact, yet the Project documents do not acknowledge this fact at to water quality will be insignificant because discharges will be —minimized best management practices. This does not mean that significant cumulatived, however, because under law incremental impacts to an existing significatidered significant.	act analysis. aterbody and instead claim d by design e impacts are	13-3, 14-3, 15-3, 16-3
background le	The language has been clarified in Chapter 3. Any potential increases in seding South Shore project treatments will be minimal and will not be measurable when exels. The resource protection measures and BMPs detailed in Chapter 2 and Appears source control, limiting erosion and subsequent sediment delivery. Because seding be undetectable above background levels, no cumulative effects to water quality a	considering endix B will iment delivery	
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Subject	Comment and Response	Commenter-Comment#
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Wildlife

1-23

...the DEIS proposes far more intensive logging than is necessary to achieve fire/fuel objectives, including much more severe degradation of spotted owl nesting/roosting habitat than necessary (resulting in a net loss of over 3,000 acres of nesting/roosting habitat....while the DEIS acknowledges that spotted owls will be harmed by the proposed logging, the DEIS does not adequately analyze the impacts of the proposed massive basal area reductions on spotted owls outside of PACs and HRCAs (as the DEIS acknowledges, most of an owl's biological home range is outside of the PAC/HRCA). For nesting/roosting habitat, spotted owls need basal area of more than 185 square feet per acre, and depend upon having about 6-8 large snags per acre in their home ranges to maintain adequate prey (Verner et al. 1992). The DEIS states that basal area will be severely reduced (essentially cut in half) down to 100-150 square feet per acre. Not only will this reduce basal area in the owls' biological home ranges far below suitability, but it will also severely reduce potential to maintain adequate large snag densities for the owls.

Response: The South Shore project is entirely within the Wildland Urban Intermix (WUI), as explained by the Purpose and Need in Chapter 1. Thinning to provide a reduction in the risk of high-intensity wildfire for homes, schools, and communities in a manner that also provides a healthier forest over the long term is the major objective for the project. To better balance these purposes and needs with CA spotted owl habitat needs, coordinated prescriptions were developed by the silviculturist and wildlife biologist to retain canopy cover, snags, and large down logs to meet suitable owl habitat within PACs/HRCAs and throughout proposed WUI treatment area, as detailed in Chapter 2, Treatment Prescriptions. The LTBMU Forest Plan (as amended) does not require meeting owl specific habitat requirements outside of the PACs/HRCAs. The owl habitat would be protected both by the wildlife prescription and the reduced risk of crown fire migration from adjacent areas. As described in the FEIS, Alternative 2 would result in more suitable acres of high and moderate capability spotted owl habitats (CWHR modeling) than Alternative 3. Alternative 3 would also increase predicted acreages of suitable habitats compared to the existing condition, while reducing the number of acres mechanically treated within HRCAs in comparison to Alternative 2. Chapter 3 discloses the effects of the project, with the finding that the project would not lead toward a trend for listing the spotted owl as threatened or endangered.

In addition, Verner et al. (1992) cautions against applying habitat association patterns to a general characterization of nesting, roosting, and foraging habitat. Therefore, an across the board application of 185 square feet per acre basal area is not uniformly applied in every vegetation type scenario.

Comment and Response Commenter-Comment# Subject 1-22 The DEIS fails to adequately analyze the adverse impacts to the cavity-nesting species, including Species at Risk, identified above, due to a further reduction in large snag densities immediately post-implementation and in the future as a result of this project. This analysis is crucial to an understanding of the impacts of this project on cavity-nesting species. Effects to cavity-nesting species and their habitats are presented in the project Management Indicator Species (MIS) Report, particularly in the sections addressing snags in green forest and snags in burned forest. General effects to wildlife species include certain cavity-nesting species tied to the Regional Forester's Sensitive Species List and the MIS analysis, presented in the wildlife sections of Chapter 3 and in the project Biological Evaluation for Terrestrial Wildlife. Refer to response 1-21. 1-21 This project would harm MIS and SAR species for which annual population monitoring is required by App. E of the 2001 Framework, but for which no such monitoring has been conducted. As such, the project cannot proceed unless either the required monitoring is conducted, or it is substantially redesigned such that it will not harm habitat for these MIS and SAR species....Moreover, the recent MIS amendment of the 2004 Framework forest plan is illegal under NEPA and NFMA, and does not relieve the USFS of the requirement to conduct annual population monitoring of specified MIS and SAR under App. E. Such species include, but are not limited to, the following: Olive-sided Flycatcher ,Swainson's Thrush, the Silver-haired Bat and Long-legged Myotis (bat), Black ear, Pileated Woodpecker, Red-breasted Sapsucker, and Williamson's Sapsucker. Response: Under the 2007 Sierra Nevada Forests Management Indicator Species Amendment (MIS Amendment) populations are monitored at the Sierra Nevada bio-regional scale, which the USFS Pacific Southwest Regional Office conducts. Effects to MIS habitats are addressed at the project scale (see Chapter 3 of the FEIS). The MIS Amendment Record of Decision (ROD) is also clear that "the sole MIS requirement that is applied at the project-level is the assessment of habitat for MIS. There are no MIS monitoring requirements in the project area or at the project level." (MIS Amendment ROD, pg. 11). Species at Risk (SAR) are not part of any monitoring requirement under the 2007 MIS Amendment. Project-specific effects to the species identified in your comment are evaluated through representative species' habitats in the project MIS Report as described below. The project Biological Evaluation (BE) also provides applicable evaluation of general and species-specific effects relevant to the species identified in your comment.

- 1. Olive-sided flycatcher: MIS Report (riparian, late-seral open-canopy coniferous forest, and late-seral closed-canopy coniferous forest habitats) and BE (effects of action alternatives)
- 2. Swainson's thrush: MIS Report (riparian habitat) and BE (effects of action alternatives)
- 3. Silver-haired bat: MIS Report (riverine, riparian, and early-seral coniferous forest habitats) and BE (effects of action alternatives and effects to Townsend's big-eared bat)
- 4. Long-legged myotis: MIS Report (riverine, riparian, and early-seral coniferous forest habitats) and BE (effects of action alternatives and effects to Townsend's big-eared bat)
- 5. Black bear: MIS report (riparian, wet meadow, and early-seral coniferous forest habitats) and BE (effects of action alternatives)
- 6. Pileated woodpecker: MIS Report (late-seral closed-canopy coniferous forest and snags in green forest habitats) and BE (effects of action alternatives and effects to similar California spotted owl habitat)
- 7. Red-breasted sapsucker: MIS Report (riverine, riparian, early- and mid-seral coniferous forest, and snags in green forest habitats) and BE (effects of action alternatives)
- 8. Williamson's sapsucker: MIS Report (mid-seral coniferous forest, late-seral open-canopy coniferous forest, and snags in green forest habitats) and BE (effects of action alternatives)

E-44 Appendix E

Subject Comment and Response	Commenter-Com	nment#
The project documents fail to acknowledge that patches of high severity fire are natural in ecosystems, and that many plant and animal species depend upon such habitat (Hanson 1995, Hutto 2006, Noss et al. 2006). In fact, peak levels of native diversity in higher plant species is found in patches of conifer forest burned at high severity which have not been (logged) (Noss et al. 2006). While we agree that we want to prevent high severity fire from adjacent to homes for public safety reasons, the suggestion that mixed-severity fire effect to forest ecosystems is flatly inaccurate ecologically. Please explain your suggestion that an ecological threat **Response:** The project treatment area is limited to the Wildland Urban Interface (WUI) (Chan The FEIS discloses the use of burned forest by wildlife in the Terrestrial Wildlife and MIS section addition, Chapter 3 of the FEIS also discloses the potential impacts for other terrestrial species for wildfire scenario involving variable severities and impacts to wildlife habitat and sensitive plants, recognize that burned forest offers habitat to some species, it also eliminates habitat for species the unburned forests. Managing to provide for burned forest is not an objective of this project and define the goals of providing for public and firefighter safety within the WUI.	a 2007, Hutto its and wildlife managed om occurring its are damaging it wildland fire is mapter 1 and 2). Its of Chapter 3. In from a potential it while we that thrive in	1-15
The effects of roads on aquatic habitat are believed to be widespread, although directA scale, correlative evidence suggests that roads are likely to influence the frequency, timir magnitude of disturbance to aquatic habitat. Increased fine-sediment composition in streamon consequence of road-derived sediments entering streams- has been linked to demergence, decreased juvenile densities, loss of winter carrying capacity, and increased fishes and can reduce benthic organism populations and algal production.	ng, and am gravel-a lecreased fry	13-15
Response: The FEIS discloses potential impacts which could result from any increases in fill Drainages, such as the lower reaches of the Upper Truckee River, Trout Creek and Cold Creek as streams, as fine particles, such as sand is what is naturally being produced and mobilized in those (although undoubtedly fine sediment impacts have occurred from past/current urbanization influe the FEIS recognizes that any additional inputs of fine sediment may result in aquatic habitat impact filling. However, fine sediment generation from roads is usually the result of less-than-optimal rost standards (i.e. lack of proper floodplain relief drainage, drainage persistence across road prisms culverts, etc.). The combination of design features for Transportation and Aquatic Wildlife found along with BMP implementation would minimize the effects that roads may have on aquatic habit	re sand-bed e subwatersheds ences). Regardless, ects, such as pool ad attainment , undersized in Chapter 2	
At the landscape scale, increasing road densities and their attendant effects are correlate in the status of some non-anadromous salmonid speciesSeveral studies correlate roa indices of roads to fish density or measures of fish diversity. Mechanisms include effects changes in streamflow, changes in water temperature caused by loss of shade cover or groundwater to surface water, migration barriers, vectors of disease, exotic fishes, change configuration from encroachment, and increased fishing pressure.	ad density or of fine sediment, conversion of	13-35
Response: The Access and Travel Management plans (ATMs) in the South Shore area would project use for all routes used by the project. Because there is no new permanent road construction increase in road density caused by the project. Because roads used by the project would be eit decommissioned or returned to their specified ATM use category, no increase in fishing pressure is expected. Resource protection measures and BMPs would minimize fine sediment. No change it temperature is expected from the project, as is disclosed in the Chapter 3 Aquatic Wildlife section protection measures include retention of trees to provide shade and stream bank stability, and are Chapter 2 Aquatic Wildlife section. Disease vectors and exotic fish are beyond the scope of this prespected to be a consequence of implementation.	on, there would be ther due to road access in stream Resource found in the	
[See comments of letter writer 13] Response:		14-1
[See comments of letter writer 13] Response:		14-7
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Lake Tahoe Basin Management Unit

Subject	Subject Comment and Response Commenter-Comme		
[See commer	nts of letter writer 13]	14-15	
Response:			
[See commer	nts of letter writer 13]	15-15	
Response:			
[See commer	[See comments of letter writer 13]		
Response:			
[See comments of letter writer 13]			
Response:	Response:		
	* End *		

E-46 Appendix E

Commenters' identification (to comment number)

ID#	Commenter	Affiliation		
1	Chad Hanson, PhD	Director, John Muir Project		
2	Kathleen Goforth	Environmental Review Office, U.S. Environmental Protection Agency		
3	Mike Vollmer	Principal Vegetation Program Manager, Tahoe Regional Planning Agency		
4	Joanne Howard	President, Echo Lakes Association		
5	Patricia Sanderson Port	Regional Environmental Officer, Office of Environmental Policy and Compliance, U.S. Dept. Interior, Office of the Secretary		
6	Jonathan F. Hoefer	California RPF #276		
7	Mark & Rebecca Novak	Interested Public		
8	Jennifer Johnson	Environmental Protection Dept., Washoe Tribe of Nevada and California		
9	Mark Novak	Battalion Chief - Fuels Management, Tahoe Douglas Fire Protection District		
10	Bill Holmes	Chief, Cal Fire Alpine-Amador-El Dorado-Sacramento Unit, California Department of Forestry and Fire Protection		
11	Gerald & Kristine Brooks	Cabin owner, Bridge Tract		
12	Rich Fairbanks	Forest and Fire Program Associate, The Wilderness Society		
13 *	Mike Graf	Sierra Forest Legacy		
14 *	Craig Thomas	Sierra Forest Legacy		
15 *	Carl Young	League to Save Lake Tahoe		
16 *	Jennifer Quashnick	Tahoe Sierra Club		
17	Mary Ann Morris	Cabin owner, Bridge Tract		
18	Gregory & Judy Thomas	Cabin owners, Bridge Tract		
19	Lorena Herrig	Cabin owner, Bridge Tract		
20	Tony Appleby	Cabin owner, Bridge Tract		
Note:	Note: * denotes cosignatories on single comment letter			

Response to Comments E-47